

WEEKLY WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION

**WATER RESOURCES
RESEARCH CENTER**



December 9, 2022 / Volume 10, Issue 34

The Water Resources Research Center - a research unit of the [College of Agriculture and Life Sciences](#) and an Extension unit in [UA Cooperative Extension](#) within the Division of Agriculture, Life & Veterinary Sciences & Cooperative Extension. [Land Acknowledgement](#).

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IN THIS ISSUE: WRRC Conference, Native American Heritage Month, Jim Kolbe, AZ Water Factsheets, Colorado River Compact, Colorado River Science Wiki

MARK YOUR CALENDARS!



WRRC

2023

**ANNUAL
CONFERENCE**

**JULY
11-12**

Photo: Kim Holmes - Reflective Morning
2021 Green Valley - WRRC Photo Contest

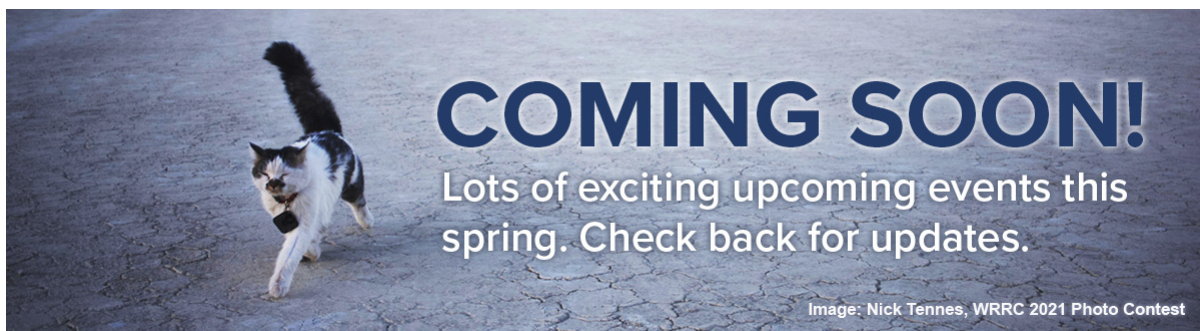


WRRC 2023 Annual Conference Update

Already planning your summer? Then think about participating in the WRRC 2023 Annual Conference, which will explore solutions to Arizona's pressing water resources issues. It will be held July 11–12, 2023 at the University of Arizona in Tucson. To canvas the range of solutions, for the first time, the **WRRC will issue a call for oral presentations and posters**. In this era of drought, diminished supply, and excessive demand, creative thinkers are proposing solutions that reduce demand, increase supply, and promote sustainable water use. From more water-efficient technology and voluntary conservation strategies to treatment and transport of saline or contaminated water and capture of rainwater/stormwater, multiple solutions are likely to be required. Science, engineering, agriculture, industry, law, education, and practical knowledge are sources of solutions worth considering. Be prepared to answer the call for proposals, **coming in January 2023**. The conference will be streamed live, but in-person attendance is encouraged.

[Past Conferences](#)

EVENTS



NEWS

UArizona Honors Native American Heritage

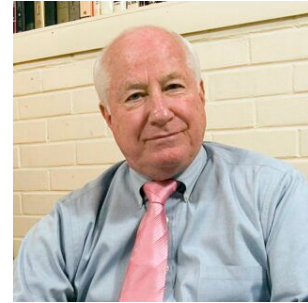
November was National Native American Heritage Month. The WRRC and the University of Arizona have been working to engage with and support Tribal conversations and efforts to address Native American issues. The Indigenous Resilience Center (IRes) at UArizona works to educate and engage with communities, featuring Native voices at UArizona and beyond. IRes hosts the Native Voices in Stem (NVIS) professional seminar series, co-sponsored by the WRRC, which invites “Native scientists, engineers, activists, community members and leaders to share their personal and professional journeys.” The WRRC 2022 *Arroyo, Water Resilience - Indigenous Perspectives*, featured highlights and takeaways from the WRRC 2021 Annual Conference *Tribal Water Resilience in a Changing Environment*, which honored the work of Rodney Blaine Lewis. UArizona has also set up the Rodney Blaine Lewis Scholars Award fund to “support graduate students who are enrolled members of an Arizona Indian Tribe, and who are enrolled in a program of study in water law, policy, or a closely related field.” Additionally, UArizona hosted its second annual *Tribal Leaders Summit* in early November to discuss advancing Native American health. The University consistently uses the [Land Acknowledgement Statement](#), developed in 2021, that acknowledges the university's home on the land and territories of Indigenous people.



Image: Courtesy of the Lewis Family

- [NVIS Seminar Series](#)
- [2022 Arroyo](#)
- [WRRC 2021 Annual Conference](#)
- [Rodney Blaine Lewis Scholars Award](#)
- [Tribal Leaders Summit](#)

Rep. Jim Kolbe Remembered for His Service to Southeastern Arizona



On Saturday, December 3, former congressional representative for Southern Arizona, Jim Kolbe, died at age 80. He had served in Congress for 22 years, from 1984 to 2006, for 20 years as a member of the influential House Appropriations Committee. Kolbe grew up in Patagonia, Arizona. After high school, he attended the US Capitol Page School in Washington, DC, and spent three years as a page for US Senator from Arizona, Barry Goldwater. Following college at Northwestern, graduate school at Stanford, and service in the US Navy during the Vietnam War, he ran for the Arizona State Senate and was elected in 1977.

[Read More](#)



Did You Know?

As water resources in Arizona become more strained, people continue to study ways to stretch or increase supplies. Cochise County is a leader in water conservation planning in rural Arizona. For instance, the Cochise Conservation and Recharge Network was established in 2015 to implement a series of conservation and recharge efforts using stormwater or reclaimed water within the San Pedro Riparian National Conservation Area. Their eight project sites comprise more than 6,000 acres and have had the cumulative benefit of saving more than 41,000 acre-feet of water for the river through recharge, retired pumping, and precluded pumping. Want to learn more about water recharge initiatives in Cochise County? Check out the Cochise County Water Factsheet here: <https://wrrc.arizona.edu/publications/factsheets/arizona-water-factsheet-cochise-county>

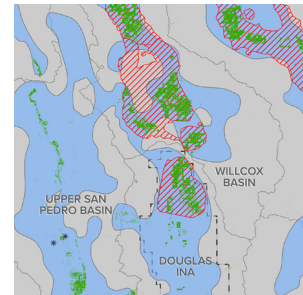


Image: ADWR, USDA 2022

[Arizona Water Factsheets](#)

Symposium Marks Colorado River Compact Centennial

A symposium on Tuesday, December 6, at UArizona marked the centennial of the Colorado River Compact with presentations and panel discussions by knowledgeable speakers with diverse perspectives on the river and its management. The program of *Confluence: The Colorado River at the Compact's Centennial*, aiming at “a discussion of current issues and solutions along the ‘American Nile’,” included a significant Tribal presence. Their voices were heard less in the first half when the director of the Arizona Department of Water Resources reviewed contemporary “unprecedented” occurrences on the Colorado River system. A panel of experts examined the impacts of climate change on longstanding expectations about how the water is apportioned and another addressed historical changes in the river’s ecosystems and what trends portend for the future. Sessions after lunch, which focused on water rights and governance, spotlighted issues of equity and justice, particularly with respect to Tribes. Ideals of inclusivity and transparency were generally embraced. A dominant message from the symposium was the imperative to reframe issues in new ways, incorporating views largely ignored when the compact was written, interpreted, and implemented throughout the past century. The current crisis may provide the opportunity for this reframing and the new solutions that such a seismic shift could make possible. The symposium also featured a book signing by authors of [*Cornerstone at the Confluence: Navigating the Colorado River Compact's Next Century*](#), newly published by the University of Arizona Press. The link to the recording will be posted soon on The Center for Climate Adaptation Science and Solutions' website: www.ccass.arizona.edu.



Image: Art by Patrick Kikut, Commissioned for Cornerstone

[More Info](#)

Colorado River Science Wiki Initiative

Want to know the current status of the Colorado River basin? Now under development, the Colorado River Science Wiki database will provide up-to-date research, water policy, and water management information relating to the Colorado River Basin. The goal of the database is to engage the greater Colorado River community, help shape water dialogues, and promote science-informed decision-making. Database development was initiated by Brad Udall with the Colorado Water Center at Colorado State University, Jeff Lukas with Lukas Climate Research and Consulting, and Julie Vano and Tanya Petach with the Aspen Global Change Institute. Want to get involved? Contact Brad Udall at bradley.udall@colostate.edu.

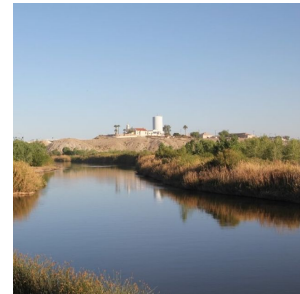


Image: Colorado River, Yuma County 2011

[Colorado River Science Wiki](#)



**WRRC 2022
Photo Contest**

WATER NOW!
Living With Less



Submit your photos!

WATER JOBS

- ADEQ [Compliance Assistance Coordinator](#)
- ADEQ [Compliance Assistance Coordinator – Drinking Water](#)
- ADEQ [Hydrogeologist 2-3](#)
- ADEQ [Surface Water Inspector](#)
- ADWR [Hydrogeologist Associate – Groundwater Modeling](#)
- ADWR [Hydrogeologist 2 – Groundwater Modeling](#)
- ADWR [Hydrogeologist 3 – Groundwater Permitting & Wells](#)
- ADWR [Water Resources Specialist Associate – Statewide Planning/Surface Water](#)
- ADWR [Water Resources Specialist 2 - Data & Document Specialist](#)
- ADWR [Water Resources Specialist 2 – Stakeholder Outreach Coordinator](#)
- ADWR [Water Resources Specialist 3 – Demand & Supply Analyst](#)
- ADWR [Water Resources Specialist 3 – Statewide Planning/Water System Program](#)
- AIREC [Haury Program Coordinator](#)
- City of Scottsdale [Water Conservation Specialist](#)
- USDA Southwest Climate Hub [Post-doctoral Fellow](#)

Please visit [WRRC's website](#) for a complete listing of water jobs & opportunities.

ANNOUNCEMENTS

- **Dec 12:** [Growing Water Smart: Integrated Water and Land Use Planning Workshop – Application Deadline](#)
- **Dec 13:** [Common Good Challenge – Registration Deadline](#)
- **Dec 14:** [WaterReuse Association Webcast: “Pure and Delicious: Water Reuse Outreach with Beer”](#)
- **Dec 16:** [2023 Family Farm Alliance Annual Conference: “A Wake Up Call for America: Why Farms, Water and Food Matter” – Super Saver Registration Deadline](#)
- **Dec 16:** [2023 WaterReuse Symposium – Early Bird Registration Deadline](#)
- **Dec 16:** [UCOWR Board of Directors 2023 Election – Nomination Deadline](#)
- **Jan 15, 2023:** [Campus Sustainability Fund Annual Grants – Preliminary Application Deadline](#)
- **Jan 16, 2023:** [NGWA Conference: Managed Aquifer Recharge: Unleashing Resiliency, Protecting Groundwater Quality – Abstract Submission Deadline](#)
- **Jan 27, 2023:** [2023 Family Farm Alliance Annual Conference: “A Wake-Up Call for America: Why Farms, Water and Food Matter” – Early Registration Deadline](#)
- **Jan 27, 2023:** [Fifth National Climate Assessment Call for Public Comment – Submission Deadline](#)

- **Jan 30, 2023:** [2023 UCOWR/NIWR Annual Water Resources Conference – Abstract Deadline](#)
- **Feb 6-7, 2023:** [Groundwater Resources Association of California Conference: Climate Change Inundates Groundwater Industry](#)
- **Feb 15, 2023:** [Call for Papers: JCWRE Special Issue on Undergraduate Research and Education – Submission Deadline](#)
- **Feb 23-24, 2023:** [2023 Family Farm Alliance Annual Conference: “A Wake Up Call for America: Why Farms, Water and Food Matter”](#)
- **Feb 24, 2023:** [2023 Land and Water Summit – Registration Deadline](#)
- **Feb 26, 2023:** [2023 WaterReuse Symposium – Advance Registration Deadline](#)
- **Mar 1-3, 2023:** [2023 Land and Water Summit](#)
- **Mar 5-8, 2023:** [2023 WaterReuse Symposium](#)
- **Apr 24-25, 2023:** [NGWA Conference: Managed Aquifer Recharge: Unleashing Resiliency, Protecting Groundwater Quality Conference](#)
- **May 7-10, 2023:** [National Association of Environmental Professionals \(NAEP\) 2023 Conference](#)
- **May 8-9, 2023:** [Water for Food Global Conference: Cultivating Innovation: Solutions for a Changing World](#)
- **Jun 13-15, 2023:** [UCOWR/NIWR 2023 Annual Water Resources Conference](#)
- **Jul 11-12, 2023:** [WRRRC 2023 Annual Conference – Save the Date!](#)
- **Jul 17-19, 2023:** [AWRA 2023 Summer Conference: Connecting Land & Water for Healthy Communities](#)

PUBLICATIONS & MEDIA

Bernat, R.F.A., and Megdal, S.B. (2022) Water Federalism in the United States of America, *Oxford Research Encyclopedias, Environmental Science* (Online) and *The Oxford Encyclopedia of Water Resources Management and Policy* (Printed book). Published online November 23, 2022.

<https://doi.org/10.1093/acrefore/9780199389414.013.795>

Megdal, S.B., Mumme, S., Salmón, R. Sánchez, Rosario, Tapia-Villaseñor, E.M. Cruz Ayala, M.-B., and Ibañez, O. (2022) Reaching Groundwater Agreements on the Border Between Mexico and the United States: Science and Policy Fundamentals, in *Transboundary Aquifers – Challenges and the way forward*, Rosario Sánchez, ed., UNESCO, Paris, France. pp. 46-51. ISBN 978-92-3-100563-3.

<https://unesdoc.unesco.org/ark:/48223/pf0000383775/PDF/383775eng.pdf.multi>

New report from the US Water Alliance

[***The Path to Universally Affordable Water Access: Guiding Principles for the Water Sector.***](#)

Water Management Assistance Program (WMAP) PowerBI Dashboard is now live and available on the [WMAP webpage](#).

Sonoran Institute Arizona Reports: A Living River

The Sonoran Institute publishes reports on Arizona river ecosystems. Recent reports feature [Tucson](#) and [Nogales](#). Many of the reports are available in both English and Spanish. [More Info](#)

Water and Tribes Initiative Report [Full PDF](#)

Enhancing Tribal Water Management Capacity in the Colorado River Basin: A Baseline Assessment [More Info](#)

OTHER NOTICES

Congratulations to Dr. Monica Ramirez-Andreotta

Dr. Monica Ramirez-Andreotta, assistant professor of Soil, Water and Environmental Science for the UArizona Department of Environmental Science, has been awarded funding for two excellent projects: *Building a Culture of Health in the Green: Participatory Learning and Action to Address Air and Soil Quality in Rural Underserved Communities* and *Wildfires and Flash Floods: Using Exposure Science to Identify Rural Arizona Mining Communities at Risk from the Release and Remobilization of Contaminants*.

CALS Career Center: Spring 2023 Career Talks

In Spring 2023, the UArizona College of Agriculture and Life Sciences (CALs) will be holding weekly Career Talks — an opportunity for employers to connect with CALs students to share an industry overview, discuss internship and/or job opportunities, and meet 1:1 with interested students. Career Talks are on Wednesdays from 12:30 - 1:30 pm AZ time. Interested employers can sign up [here](#).

Public Comment: Drinking Water Regulations – Prohibition on Lead Use Rulemaking

ADEQ welcomes comments on updates to the safe drinking water rules in A.A.C. Title 18 Chapter 4 to conform to EPA's final regulation entitled "Use of Lead Free Pipes, Fittings, Fixtures, Solder, and Flux for Drinking Water" (Lead Free Rule). 85 FR 54235 (Sept. 1, 2020). [More Info](#)

UArizona Presidential Advisory Commission on the Future of Agriculture and Food Production in a Drying Climate

WRRRC Director Sharon B. Megdal has been appointed to serve on this new Commission that will provide recommendations on concrete steps the University can take to make our state a global leader in creating and applying transformational technologies and climate-resilient sustainable agricultural and food production practices, in partnership with the desert agriculture industry. [More Info](#)

Do you have a story idea, water job announcement, or event to share?

[Contact us here](#)