

WEEKLY WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION

**WATER RESOURCES
RESEARCH CENTER**



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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. [Subscribe to the Weekly Wave.](#)

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Looking to the Year Ahead

Happy New Year! As our plans for 2022 continue to take shape, here is a selection of what's on the horizon for the WRRRC. On January 24, we are co-hosting a [webinar](#) with Dr. Ranalda L. Tsosie as part of the Indige-FEWSS Native Voices in STEM seminar series. We have an excellent line-up of presenters in the works for our Spring 2022 [Brown Bag webinar series](#). Topics will include the revitalization of the Salt River corridor, work with the Bishop Paiute Tribe in California, restoration of the Colorado River Delta, and more!

Our 2022 Annual Conference is under development with the help of many active advisors and will focus on water use by the agricultural sector. Keep an eye on our [events page](#) to stay up to date on these outreach activities! On the education front, WRRC Director Sharon B. Megdal will be teaching her graduate water policy class again this spring semester. Our research and community-based programs also have a busy year planned.

[Read More](#)

EVENTS

Native Voices in STEM Spring 2022 Seminar Series: Utilizing Diné Science and Innovation to Tackle Longstanding Water Challenges in Diné Communities

Date: January 24, 2022

Time: 3:00-4:00 pm Arizona Time

Location: [Webinar Only](#)



Speaker:

Ranalda L. Tsosie, *Post-Doctoral Fellow, University of Montana*

Dr. Tsosie is a post-doctoral scholar at Montana State University in Bozeman, MT. She is currently working on a point of use filter optimization project and continuing to work with Indigenous communities and water challenges. Dr. Tsosie completed Ph.D. in interdisciplinary Studies with a subject emphasis in the fields of Chemistry, Geosciences and Environmental Science/Studies from the University of Montana. In her free time, she enjoys beading, sewing, practicing traditional Diné arts.

[Zoom Link](#)
[More Info](#)

NEWS

500+ Plan to Protect Lake Mead

As 2021 ended, the Lower Colorado River Basin states, their partners, and the US Bureau of Reclamation (Reclamation) reached an agreement to take additional steps to protect the water level in Lake Mead. Referred to as the “500+ Plan,” the agreement aims to leave an additional 500,000 acre-feet of water (per year) in the reservoir above the 2019 Drought Contingency Plan commitments for 2022 and 2023. Funded by the State of Arizona, Central Arizona Water Conservation District (CAP), Reclamation, California, Nevada, and others, the 500+ Plan outlines conservation actions in both urban and agricultural communities throughout the Lower Colorado River Basin. The goal of the Plan is to reduce the likelihood that the water level in Lake Mead will drop below elevation 1,020’ through 2026.



Image: Michael Rosen, USGS

WRRC and Partners Engage Rural Leaders About Post-Fire Watershed Recovery



On October 29 and 30, 2021, the WRRC, Gila County Cooperative Extension, and Cobre Valley Watershed Partnership co-convened the *After the Fire* public meeting to unpack the status and outlook for local watersheds affected by the Telegraph and Mescal Fires. In June 2021, these fires burned over 250,000 acres across Pinal and Gila Counties and San Carlos Apache Reservation. Following containment, the record monsoon season triggered floods and debris flows that threatened property and lives. Hosted at the Bullion Plaza Cultural Center & Museum in Miami, AZ, community leaders and natural resource managers provided outstanding presentations and panel discussions to aid the public in understanding the short and long-term impacts of these fires and floods, as well as recovery efforts. The event was sponsored by the Town of Superior, Town of Miami, City of Globe, Gila County, US Forest Service, Arizona Water Company, Capstone, Freeport-McMoRan, Resolution Copper, National Forest Foundation, and South Carolina Department of Natural Resources.

Image: Ben Downer

[After the Fire Video Series](#)



Art to Build Climate Resilience

Many Arizona cities observed hot temperatures this year, with 2021 being the 5th hottest year in Tucson, 10th hottest in Phoenix, and 8th hottest in Yuma, to name a few. APW shared its work in building climate resilience with Tucson students and teachers at the American Geophysical Union annual meeting with a [poster](#) sharing climate-related art by local middle and high school students. Students created their artwork around the themes of *Home, Hope, and Action* after learning about climate change and ways that the Tucson community can build resilience through rainwater harvesting, political change, and planting more trees. Much of the work was shared in an online zine that can be viewed [here](#). Several other posters in the session shared information about Alaskan students investigating the effect of dirty snow on climate change, 4-H youth “hacking” food waste in New Mexico, and Louisiana students building expertise in decreasing vulnerability to hurricanes. While the statistics on climate are a bit grim, the tenor of the session was a hopeful way to end 2021.

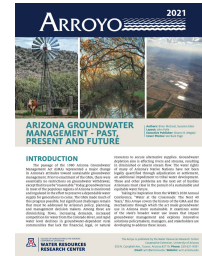


Photo: Micro Ecosystem by Isis R., Basis North 8th Grade student

WRRC Arroyo Retrospective Finds Broad Impacts

A recent reference to the WRRC’s 2021 *Arroyo* in *The Water Report* (Issue #214, December 15, 2021) prompted a reflection on the impacts of that annual publication in Arizona and beyond. The *Arroyo* is unique and, although it is distributed primarily through

email subscription, it also continues to be printed and distributed to a list of loyal subscribers that includes individuals, agencies, and libraries. In addition, conference organizers, such as the Agribusiness & Water Council of Arizona and Arizona Farm Bureau, have distributed copies at their conferences. The 2009 and 2010 issues were used as basic documents by Governor Jan Brewer's Blue Ribbon Panel on Water Sustainability in their deliberations. Reporters from the press, radio, and TV news often ask for follow-up interviews, one commending the 2007 *Arroyo* on groundwater recharge as the clearest explanation of the topic she had seen, a sentiment repeated a decade later by groundwater geologist Bridget Scanlon. Examples of broad interest include reprints and synopses. A summary of the 2014 issue on the value of water appeared in the *Arizona Capitol Times* and was reprinted in *Reeves Journal*, a magazine for plumbing, heating, and cooling professionals. The 2015 issue, *Closing the Water Demand-Supply Gap in Arizona*, was reprinted by *The Water Report* in a modified form and summarized as part of a series of articles on water for the national Renewable Natural Resources Foundation's 2015 *Congress on Sustaining Western Water*. An article derived from the 2016 issue on potable reuse was published in *IMPACT*, the American Water Resources Association magazine. Look for the 2022 *Arroyo* on water resilience from Tribal perspectives, coming out this spring, and a special issue on the 2021 International Arid Lands Consortium conference *Addressing the Environmental Challenges of Arid Lands*.



[Arroyo Newsletter](#)

WATER JOBS

- WRRRC [Communications Coordinator](#)
- WRRRC [Postdoctoral Research Associate \(RAPIDS\)](#)
- WRRRC [Postdoctoral Research Associate](#)
- UArizona [Director, Cooperative Extension](#)
- ICWP [Executive Director](#)
- ICWP [Spring 2022 Internships](#)
- UNESCO [Project Officer \(Groundwater Section\)](#)

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

ANNOUNCEMENTS

- **Jan 11:** [2022 AZ Water Association Research Symposium](#)
- **Jan 15:** [11th International Symposium on Managed Aquifer Recharge – Super Early Bird Registration Deadline](#)
- **Jan 18:** [SWN River Series: *The Salt River Pima-Maricopa Indian Community: Way of Life Protectors*](#)
- **Jan 25:** [Water Underground Talks Season 2 – Nomination Deadline](#)
- **Jan 26:** [Spring 2022 UCOWR Roundtable Series: *Forever Pollutants: Knowledge Gaps, Risks, and Solutions* – Save the Date](#)
- **Jan 28:** [Water Education Foundation 2022 Inaugural Colorado River Water Leaders Program – Application Deadline](#)
- **Feb 7:** [US Environmental Protection Agency and Army Corps of Engineers New Proposed Rule for Waters Protected Under CWA – Public Comments Deadline](#)
- **Feb 15:** [Spring 2022 UCOWR Roundtable Series: *Utilizing Drones in Research* – Save the Date](#)

- **Feb 23-24:** [The Third International Congress on Desert Economy: *Energy Economics between Deserts and Oceans* \(Dakhla, Morocco\)](#)
- **Mar 1:** [Babbitt Center for Land and Water Policy 2022 Dissertation Fellowships – Application Deadline](#)
- **Mar 1-3:** [Arizona Growing Water Smart Workshop](#)
- **Mar 4:** [2022 AHS Annual Symposium – Abstract Deadline](#)
- **Mar 8-10:** [Global Council for Science and the Environment \(GCSE\) 2022 Virtual Conference: *The Road to 2030 - Tipping Points for a Climate Positive Future*](#)
- **Mar 9:** [Spring 2022 UCOWR Roundtable Series: *Aquatic Invasive Species – Save the Date*](#)
- **Mar 21-23:** [AWRA 2022 Geospatial Water Technology Conference](#)
- **Mar 22:** [World Water Day 2022](#)
- **Mar 22-24:** [Expo 2020 Dubai, *Water Resources Management and Sustainability: Solutions for Arid Regions*](#)
- **Apr 11-15:** [11th International Symposium on Managed Aquifer Recharge](#)
- **Apr 12-14:** [AZ Water 95th Annual Conference & Exhibition](#)
- **Apr 20:** [Spring 2022 UCOWR Roundtable Series: *Coastal Water Issues II – Save the Date*](#)
- **Apr 25-27:** [AWRA 2022 Spring Conference: *Water Risk Under a Rapidly Changing World - Evaluation & Adaptation*](#)
- **Jun 14-16:** [UCOWR/NIWR 2022 Annual Water Resources Conference](#)
- **Sep 11-14:** [AWWA 2022 Water Infrastructure Conference & Exposition](#)
- **Sep 11-15:** [IWA World Water Congress & Exhibition - *Water for Smart Liveable Cities* \(Copenhagen\)](#)
- **Sep 14-16:** [2022 AHS Annual Symposium](#)

OTHER NOTICES

[ASU Kyl Center for Water Policy launches Story Map on Colorado River shortage.](#)

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

[Contact us here](#)