

WEEKLY WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION

**WATER RESOURCES
RESEARCH CENTER**



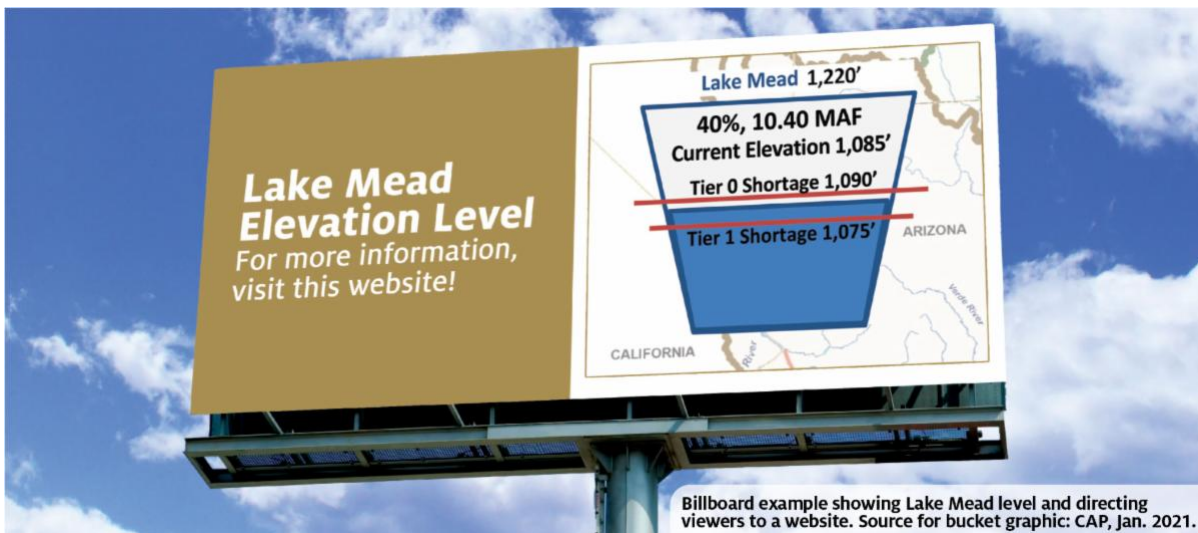
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The Water Resources Research Center - a research unit of the [College of Agriculture and Life Sciences](#) and an Extension unit in [UA Cooperative Extension](#) within the Division of Agriculture, Life & Veterinary Sciences & Cooperative Extension.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

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IN THIS ISSUE: Reflections, Welcome Back, Gregg Garfin, APW, Claire Tritz



Reflections: A Reexamination of Past Water Wishes

Prior to beginning my series of *Reflections* essays, I published a column in each issue of the now-discontinued WRRRC *Arizona Water Resource* newsletter. Because these short columns addressed relevant current-day water issues, I ask students in my graduate class, Water Policy in Arizona and Semi-arid Regions, to read the 75 columns I wrote between 2002 and 2018 and prepare some questions for discussion. In reviewing the

columns before our first class meeting on January 15, I was reminded of my “15 Water Wishes for 2015” from six years ago. I decided to revisit these wishes and look at whether they were fulfilled. The column can be found in the [compendium](#) available on the WRRC website. Below, I reproduce my 15 wishes and provide brief updates and/or commentary on each.

[Read More](#)

WRRC EVENTS

Brown Bag: Collaborative Capacity Building and Sovereign Science with NASA and the Navajo Nation

Date: Wednesday, Jan 20, 2021

Time: 12:00 - 1:15 p.m. MST

Location: [Webinar Only](#)

Speakers:

Amber Jean McCullum, PhD, *Applied Scientist, BAERI/NASA Ames Research Center*

Nikki Tulley, *PhD Student, Department of Environmental Science, University of Arizona*

Sustained capacity building and knowledge exchange are vital to increase the use of NASA Earth Observations for Indigenous natural and cultural resource management. This presentation will explore multiple collaborations with NASA and the Indigenous Community including NASA's Indigenous Peoples Pilot project and the Navajo Nation Drought Severity Evaluation Tool project. Given the size of the Navajo Nation, the lack of consistent climate data, limited resources, and the increasing extent and severity of droughts, tools that assist water managers are essential.



[Register for the Webinar](#)

Upcoming Webinars

Feb 3: Recovery of AZ Water Bank Credits to Mitigate Shortages on the Colorado River

Rabi Gyawali, *Water Resource Engineer, Arizona Department of Water Resources*

Simone Kjolsrud, *Technical Administrator, Arizona Water Banking Authority*

Angie Lohse, *Senior Policy Analyst, Central Arizona Project*

Feb 16: Reaching Safe-Yield in the Phoenix AMA

Jessica Fox, *Water Policy Advisor, AMWUA*

Mar 11: Community Service and Environmental Justice as Essential Best Practices For the Clean Water Utility of the Future

Andrew Kricun, *Managing Director, Moonshot Missions; Senior Fellow, US Water Alliance*



Mar 31: *The Internet of Water: Partnerships for Progress—Modernizing Water Data to Meet 21st Century Needs*

Peter Colohan, *Executive Director, Internet of Water, Nicholas Institute for Environmental Policy Solutions, Duke University*

Other Events

Feb 12: WRRRC Chocolate Fest – Save the Date

NEWS

Here's to 2021!

This week marks the start of the Spring 2021 semester, and the WRRRC wants to extend a warm welcome to all returning students, faculty, and staff. We are excited to begin another year and look forward to engaging with you all. While perhaps many are happy to see 2020 pass into history, we now turn our attention to the projects and challenges ahead. As the COVID-19 pandemic continues to spread through our communities and the first stages of the nationwide vaccination effort are underway, the WRRRC remains committed to providing its programs, research, and engagement efforts virtually. UArizona has been designated as a Point of Distribution for the COVID-19 vaccine, immunizing residents who qualify under Phase 1B of the Arizona COVID-19 Vaccine Prioritization, including UArizona faculty, staff, and Designated Campus Colleagues. Be sure to visit our [website](#) for updates on our activities and refer to the links below for information on the vaccination distribution effort. We wish everyone a safe, healthy, and rewarding semester!



[Pima County Vaccine Distribution Information](#) [President Robbin's Vaccine Communication](#)

UArizona Expert Elected as AAAS Fellow

In October 2020, UArizona expert on climate science and policy, Gregg Garfin, was named a 2020 Fellow of the American Association for the Advancement of Science (AAAS). Garfin serves as Director of the Southwest Climate Adaptation Science Center, Deputy Director for Science Translation and Outreach of the Arizona Institutes for Resilience, and Associate Professor and Associate Extension Specialist in the School of Natural Resources and the Environment. Garfin earned the AAAS Fellow distinction for his work linking fundamental climate and paleoclimate science to climate services and decision making through climate assessment, knowledge exchange, and the development of translational ecology. Garfin is the co-lead author of the Southwest chapter of the Fourth National Climate Assessment. He is co-editor of *Climate in Context: Science and Society Partnering for Adaptation*, a 2016 book on the development and practice of use-inspired science and the co-production of science and policy through NOAA's RISA program. He has been encouraging scientists to work at the interface between research and decision-



making. Seven other scholars from Arizona State University and Arizona Northern University received this AAAS distinction. Please join us in congratulating Dr. Garfin!

[UArizona News Article](#)
[List of the 2020 AAAS Fellows](#)



Saving Groundwater at Schools

Gasps of excitement and broad smiles are common when students explore the groundwater system using APW's 3D student models. APW is very excited and eager to expand this success through a multiyear grant from Arizona Department of Water Resources (ADWR), which provides funding to educate West Valley students on Arizona's groundwater conditions.



To successfully protect Arizona's groundwater supplies, we need to build an understanding of the solid foundation provided by the 1980 Groundwater Management Act, and the 100-year Assured Water Supply Rules. We need to learn about the groundwater system and how it interacts with other earth systems. Prioritizing sustainable water management has enabled us to thrive here in the desert, and we will continue that legacy with help from a knowledgeable populace.

[Read More](#)

WRRC Student Highlight: Claire Tritz

Here at the WRRC, we are fortunate to work alongside incredible students, both at the undergraduate and graduate levels. Claire Tritz is one such student who joined the WRRC in September 2020, and has been helping with our many outreach activities. Claire, a graduate student in the Department of Hydrology & Atmospheric Sciences, is researching mountain block recharge and ephemeral streams in the Santa Rita Mountains. Outside of work and school, Claire enjoys spending time hiking, cooking delicious food, and creating art. Thank you, Claire, for your ongoing efforts to bring our programs to the community.



WATER JOBS

- [Program Coordinator, Arizona Center for Civic Leadership](#)
- [ADEQ Border Programs Intern](#)

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

ANNOUNCEMENTS

Arizona Water Blueprint updates posted – AMA [water demand](#) by sector, [groundwater levels](#) in sub-basins, [tribal Colorado River allocations](#), and INA [water withdrawals](#).

- **Jan 15:** [Resources 2021 Travel Award - Application Deadline](#)
- **Jan 17:** [University Climate Change Coalition \(UC3\) - Spring 2021 Cohort Application Deadline](#)
- **Jan 20-Mar 24:** [UCOWR Winter 2021 Virtual Roundtable Series](#)
- **Jan 27-Mar 10:** [ADWR 5MP Work Group Meetings - 5MP Agricultural Subgroup Meeting, 5MP Municipal Subgroup Meeting, 5MP Turf Breakout Meeting, 5MP Safe-Yield Technical Subgroup Meeting](#)
- **Jan 29:** [Santa Cruz River Research Days – Abstract Deadline](#)
- **Jan 29:** [ADEQ Environmental Reviews & Certifications Five Year Rule Review – Survey Deadline](#)
- **Feb 1:** [AWRA 2021 Summer Conference *Connecting Land and Water for Healthy Communities* \(July 19 – 21\) Denver, CO - Special Session Submission Deadline](#)
- **Feb 7:** [Fate of PFAS: From Groundwater to Tap Water – Abstract Deadline](#)
- **Feb 12:** [WRRC Chocolate Fest – Save the Date](#)
- **Feb 15:** [UCOWR/NIWR Annual Water Resources Conference - Abstract Deadline](#)
- **Feb 17-26:** [RiversEdge West 2021 Conference - *Changing Rivers*](#)
- **Feb 23-24:** [GRA Virtual Event: *The Future of Water*](#)
- **Mar 1:** [2021 Babbitt Center Dissertation Fellowships – Application Deadline](#)
- **Mar 1:** [Arizona Growing Water Smart Workshop - *Integrating Water and Land Use to Create Resilience* - Application Deadline Extended](#)
- **Mar 3:** [Problematic Groundwater Contaminants: More than PFAS Forum – Abstract Deadline](#)
- **Mar 11-12:** [23rd Annual Law of the Colorado River Conference](#)
- **Mar 15-25:** [36th Annual WaterReuse Symposium: *Resilience Redefined: health.economy.environment*](#)
- **Mar 25-26:** [Santa Cruz River Research Days](#)
- **Apr 1:** [Special Issue of the Journal *Water* \(ISSN 2073-4441, IF 2.544\) - *Advances in Transboundary Aquifer Assessment* - Manuscript Submission Deadline](#)
- **Apr 1-Jul 1:** [Women in Water Scholarship - Applications Accepted](#)
- **Apr 6-8:** [AZ Water 2021 Annual Conference](#)
- **Apr 6-8:** [Virtual 2021 Southwest Adaptation Forum \(SWAF\)](#)
- **Apr 15-16:** [2021 Virtual Joint AWRA & National Capital Annual Water Symposium, *Human Dimension to Resilient and Sustainable Water Management: Promoting Integrated Collaboration* - Registration Open](#)
- **May 10-12:** [International Conference on Water Energy Food and Sustainability \(ICoWEFS 2021 – Leiria, Portugal\)](#)
- **May 18-19:** [The Third International Congress on Desert Economy: *Energy Economics between Deserts and Oceans* \(Dakhla, Morocco\)](#)
- **May 18-20:** [11th International Conference on Sustainable Water Resources Management: *Effective Approaches for River Basins and Urban Catchments* \(Milan, Italy\)](#)
- **Jun 13-16:** [ACE21 - Registration Open](#)
- **Jun 21-23:** [WEF SWI Stormwater Summit 2021](#)
- **Nov 1-3:** [AIWW 2021: *Blue-Green Deals with Integrated Solutions*](#)
- **Sept 2022:** [IWA World Water Congress & Exhibition - *Water for Smart Liveable Cities* \(Copenhagen\)](#)