

SUMMER WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION

**WATER RESOURCES
RESEARCH CENTER**



June 10, 2022 / Volume 10, Issue 2

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: Conference Agenda, Book Review, Groundwater Article, APW, Monsoon



Arizona's Agricultural Outlook: Water, Climate, and Sustainability

REGISTER TODAY!

July 12 | In-person Event
with Livestreaming

July 13-14 | Additional Virtual Programming



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Preliminary WRRRC Conference Agenda Posted

An updated agenda for our July 12-14 [Annual Conference](#), *Arizona's Agricultural Outlook: Water, Climate, and Sustainability*, has been posted! The [agenda](#) features a wide range of speakers and panelists, representing the amazing diversity of Arizona agriculture.

Day 1 will be held in person at the University of Arizona Student Union on Tuesday, July 12 from 9:00 am to 4:00 pm Arizona time. After a welcome from WRRC Director Sharon B. Megdal and Cooperative Extension Interim Director Ed Martin, the program will include opening remarks from Arizona Department of Agriculture Director Mark Killian, a morning Keynote by UArizona Agronomist and Extension Specialist Jeff Silvertooth, and a two-part session of highlight talks on ranching, the dairy industry, Tribal agriculture, heritage crops, regenerative and community farming, and much more! In the afternoon, A.G. Kawamura, co-chair of Solutions from the Land, and Uri Shani, former director of the Israel Water Authority and chairman and chief technology officer of N-Drip, will each give keynote presentations. The afternoon also features a panel on advancing sustainable practices, then concludes with a session sharing stories of agriculture in Arizona. Days 2 and 3 will be held virtually on Zoom, with sessions from 9:00 am to noon. Wednesday's programming will include panels on drought adaptation, innovative partnerships, and water policy. Thursday's sessions will look to the future, with topics including public health and Arizona's agricultural outlook. Check out the agenda for more information on our exciting three-day conference!

- [View the Preliminary Agenda](#)
- [Conference Registration](#)
- [Sponsorship Opportunities](#)

EVENTS

AWRA Webinar: MAR in Action: The Role of Managed Aquifer Recharge in Meeting Water Policy Goals

Date: Wednesday, June 22, 2022
Time: 1:00 - 2:00 pm Eastern Time
Location: [Webinar Only](#)

Speaker:

Sharon B. Megdal, *WRRC Director and AWRA Board Member*



Director of the University of Arizona Water Resources Research Center and AWRA Board Member, Sharon B. Megdal will discuss Arizona's Managed Aquifer Recharge (MAR) accomplishments – and challenges. This webinar focuses on how a sound regulatory framework for MAR is foundational to deployment of underground storage and recovery programs designed to meet multiple water policy goals, including those related to Colorado River utilization and shortage conditions.

[Register Here](#)
[More Info](#)

Upcoming Events

Jul 12-14: [WRRC 2022 Annual Conference: Arizona's Agricultural Outlook: Water, Climate, and Sustainability](#)

BOOK REVIEW - The Water Recycling Revolution: Tapping into the Future

William M. Alley and Rosemarie Alley
Rowman & Littlefield, Publisher

by Sharon B. Megdal
06/10/2022

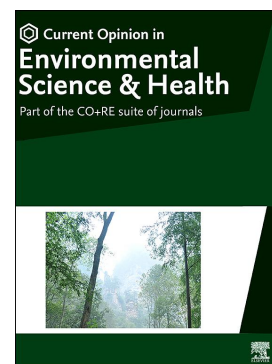
Summer break is a good time for reading. Although fiction is my preferred genre, I was eager to read the fourth and latest book by William M. and Rosemarie Alley, *The Water Recycling Revolution: Tapping into the Future*, which was published in April 2022. Memorial Day weekend, often considered the beginning of summer activities, turned out to be a good time for me to read the volume, which fills an important gap for water experts and the general public by providing an excellent primer on the history, current status, and future of water recycling.



[Read More](#)

New Article on Drought and Groundwater Management

Former WRRRC Research Analyst Jacob D. Petersen-Perlman (now at East Carolina University), Tecnológico de Monterrey Professor Ismael Aguilar-Barajas, and WRRRC Director Sharon B. Megdal published an article in *Current Opinion in Environmental Science & Health*, titled “Drought and Groundwater Management: Interconnections, challenges, and policy responses.” The article explores the interconnection of drought and groundwater — two issues that are typically viewed as independent from one another — and discusses future directions for water management. The authors discuss the socioeconomic, environmental, and political impacts of these issues and point out the delay in management changes in response to evolving scientific understanding, noting “[w]hile advances have been made in several areas ... it appears that governance advancements lag for drought and groundwater.” They also address the importance of clear messaging about water, concluding that “there is the pressing need to find better ways to communicate groundwater issues during droughts.”



[Read the Article](#)



Refreshing Your Knowledge About Water

In the summertime, nothing is more refreshing than water. Whether you’re drinking it, gardening with it, swimming in it, or enjoying other aquatic activities, water revitalizes the

body and spirit. Summer is also a great time for educators to immerse themselves in an even deeper understanding of this precious Arizona resource. APW's Aqua STEM program will be leading three professional development workshops focused on critically thinking about our water resources on June 28, 29, & 30. These units have been freshly redesigned and shortened to optimize delivery. Join us for the Riparian Field Investigation (RFI) to learn how vital our wetland areas are while engaging students in an authentic field research experience. Discover Arizona's unique water resources in the Waters of Arizona (WOA) workshop, which includes designing and engineering a model of the Central Arizona Project canal. Kick off the workshop series by learning a form of System Thinking that is incorporated into several of our classroom lessons. To learn more, contact Sandra Hurlbut at shurlbut@arizona.edu or [register online](#).



[Aqua STEM](#) [Register Here](#)

Preparing (and hoping!) for Rain

At the end of the day on Tuesday, WRRC staff member Michael Seronde finally installed the final sections of piping and the last few fixtures for his new rainwater harvesting system at home. Now, the only task left to do is clean a year's worth of mesquite leaves from the gutters and wait for the rain. June 15 is the official start of the Arizona Monsoon season, as defined by the National Weather Service. However, according to UArizona Climate Scientist Mike Crimmins, here in southern Arizona, the rains typically don't start until early July. This year, "the models are suggesting that we'll have monsoon activity show up maybe a little bit early and maybe robustly in July." Crimmins predicts the monsoon will be wetter than average, but just slightly. So, as Seronde and many others throughout Arizona are eagerly awaiting the monsoon rains, now is the time to dive into many resources available to make the most of the precipitation when it arrives. For example, customers of Tucson Water can take advantage of their [Rainwater Harvesting Rebate](#) program, which rebates up to \$2,000 towards active and passive rainwater catchment systems. [Recharge the Rain](#), a collaboration between Watershed Management Group and Arizona Project WET, provides information for teachers and communities on how to build rain gardens and rainwater catchment basins. Many additional resources are available on the WRRC's [Desert Water Harvesting Initiative resource page](#).



Image: ADWR

[2022 Monsoon Outlook](#) [News Coverage](#)

WATER JOBS

UArizona Director, Cooperative Extension [Job Listing](#)

The University of Arizona seeks a strategic and innovative leader to be the next Director of the [UArizona Cooperative Extension System \(CES\)](#).

- WRRC [Statewide Water Information Manager](#)

- Dept of Agriculture [Community Planner](#)
- Dept of Agriculture [Public Affairs Specialist](#)
- Claremont Graduate University [Watershed Data Intern](#)
- ADEQ [Environmental Scientist \(Water Quality Division\)](#)
- ADEQ [Community Science Specialist \(Water Quality Division\)](#)

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

ANNOUNCEMENTS

- **Jun 14-16:** [UCOWR/NIWR 2022 Annual Water Resources Conference](#)
- **Jun 15:** [The 8th International Conference on Drylands, Deserts & Desertification: Learning from Drylands: A Global Effort Towards Ecosystem Restoration – Abstract Deadline](#)
- **Jun 16-17:** [42nd Annual Colorado Law Conference on Natural Resources](#)
- **Jun 17-20:** [AHS Flagstaff Chapter North Rim Field School](#)
- **Jun 19-24:** [Frontiers in Hydrology 2022: Future of Water](#)
- **Jun 21-24:** [Global Council for Science and the Environment \(GCSE\) 2022 Virtual Conference: Biodiversity, Conservation Science, and Climate Change](#)
- **Jun 22:** [AWRA Webinar: MAR in Action: The Role of Managed Aquifer Recharge in Meeting Water Policy Goals](#)
- **Jul 12-14:** [WRRC 2022 Annual Conference: Arizona's Agricultural Outlook: Water, Climate, and Sustainability](#)
- **Jul 15:** [ADEQ 604\(b\) Water Quality Grant Program – Application Deadline](#)
- **Jul 26:** [GROUNDWATERx Session for Students and Recent Grads at Western Groundwater Congress 2022 – Abstract Deadline](#)
- **Aug 11-12:** [Arizona Water Law Conference](#)
- **Aug 16:** [2022 AHS Annual Symposium – Early Bird Registration Deadline](#)
- **Sep 11-14:** [AWWA 2022 Water Infrastructure Conference & Exposition](#)
- **Sep 11-15:** [IWA World Water Congress & Exhibition – Water for Smart Liveable Cities](#)
- **Sep 14-16:** [2022 AHS Annual Symposium](#)
- **Sep 19-21:** [Western Groundwater Congress](#)
- **Sep 22-23:** [Tribal Water Law Conference](#)
- **Sep 26-27:** [OU International WaTER Conference](#)
- **Sep 26-29:** [State of the Verde Watershed Conference – The Future of the Verde: Solutions for the Next Decade](#)
- **Oct 6-8:** [SustainValencia2022; Achieving Sustainable Groundwater Management: Promising Directions and Unresolved Challenges](#)
- **Nov 7-9:** [AWRA 2022](#)

PUBLICATIONS & MEDIA

The latest issue of the *Renewable Resources Journal* is now available as a free download, featuring an article by WRRC Director Sharon B. Megdal titled "Water Policy Options as Arizona Adapts to a Drier Colorado River: A Perspective." [Click here](#) to download RNR's public policy journal.

Petersen-Perlman, Jacob D.; Aguilar-Barajas, Ismael; Megdal, Sharon B. 2022. "Drought and Groundwater Management: Interconnections, challenges, and policy responses" *Current Opinion in Environmental Science & Health*, In Press, Journal Pre-proof. <https://doi.org/10.1016/j.coesh.2022.100364>

OTHER NOTICES

Proceedings and Recordings available for Santa Cruz River Research Days, March 24 & 25, 2022

- [Event Proceedings](#)
- [View the Recordings](#)
- [More Info](#)

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

[Contact us here](#)