

# WEEKLY WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES  
COOPERATIVE EXTENSION  
**WATER RESOURCES  
RESEARCH CENTER**

**February 14, 2020 / Volume 8, Issue 6**

The Water Resource 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

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## Get Ready! WRRC Webinar Series, Part 2

Hear the latest on Arizona water planning and management in the second WRRC "Get Ready" webinar. On Tuesday, February 18, 2020, from noon-1:30 PM, this second webinar will focus on the committees of the Governor's Water Augmentation, Innovation, and Conservation Council. The session will begin with a presentation by Philip Richards, Chair of the Desalination Committee. Richards will provide an overview of why desalination is being used today and how the technology may help us meet future water challenges. Continue looking forward with Wade Noble, Chair of the Long-term Water Augmentation Committee, who will give an update on that committee's work in

underground storage, weather modification, and phreatophyte and forest management strategies. The webinar will also feature an update from Timothy Thomure, Co-Chair of the Post-2025 AMAs Committee. This committee is tasked with evaluating the outcomes of the first 45 years of the Active Management Areas and identify strategies for water management after 2025.

These presentations will help set the stage for the in-depth discussions at the 2020 WRRRC Annual Conference, *Water at a Crossroads: The Next 40 Years*, to be held on March 27, 2020.

Register for the [webinar](#)

## WRRRC EVENTS

### Upcoming Webinars in Our "Get Ready" Series:

**February 18**, featuring updates from committees under the Governor's Water Augmentation, Innovation, and Conservation Council. [Webinar registration](#).

**March 3**, a presentation in collaboration with the Central Arizona Project on a range of topics linked to the management of the Colorado River system. [Webinar registration](#).



### Brown Bag Seminar - Changes in Aquifer Storage Derived from Microgravity and Water-Level Monitoring in the Tucson Active Management Area

**February 20, 2020**

**Time/Location:** 12:00 - 1:15 p.m., WRRRC Sol Resnick Conference Room (350 N. Campbell Ave.)

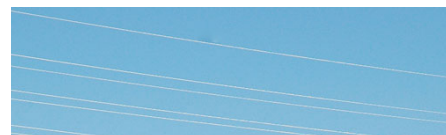
**Presenters:** Margaret Snyder, Hydrologist, Tucson Water; Libby Kahler, Hydrologist, U.S. Geological Survey



Over the past 20 years, the Tucson Active Management Area has experienced fluctuations in aquifer storage. These changes are a result of recharging imported water and changing groundwater pumping regimes. The USGS uses microgravity to directly measure storage changes in space and time, while Tucson Water measures depth to water in its measurable production wells in an annual round-up. By examining the data from both agencies, it is possible to characterize changes in the regional aquifer and monitor interesting trends in specific geographic areas.

Register to watch [online](#)

### Know About Your Water Green Valley - Sahuarita



**February 25, 2020**

**Time/Location:** 10:30 a.m. - noon, Desert Hills Center, 2980 S. Camino del Sol, Green Valley, AZ

This encore presentation, sponsored by the Green Valley Council Environment Committee, will touch on everything you want to know about water resources in the Green Valley-Sahuarita area. The culmination of a project funded by the Freeport McMoRan Community Investment Program, this interactive presentation offers neutral, independent information on water supplies, uses, and quality, as well as community and individual actions to conserve and augment water resources in the region.



Photo: Wikimedia Commons

[Share the flier](#)

## WRRC NEWS

### The Sonoran Institute & Babbitt Center Realizing Integrated Water and Land Use Planning

Several Arizona communities talked water and land last week during an integrated water and land use planning workshop, organized jointly by the Sonoran Institute and the Babbitt Center for Land and Water Policy. The *Growing Water Smart: Arizona* workshop brought together community members and experts to collaborate on long-term water security. The workshop, which took place last week in Phoenix, introduced communities to the full range of communications, public engagement, planning, and policy implementation tools available to realize their watershed health and community resiliency goals. WRRC Research Analyst Ashley Hullinger co-facilitated the Case Grande team with Faith Sternlieb from the Babbitt Center. A full list of participants included: Apache Junction, Avondale, Buckeye, Casa Grande, Florence, Gilbert, and Surprise.



[Program flier](#)

### WRRC Alum Publishes Managed Aquifer Recharge Article in Special Issue of *Water*

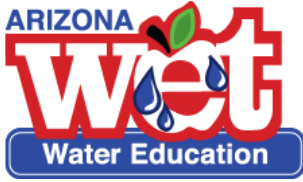
Congratulations to Mary Belle Cruz Ayala on the publication of her article "An Overview of Managed Aquifer Recharge in Mexico and Its Legal Framework" in the February 2020 *Special Issue: Managed Aquifer Recharge for Water Resilience* of the journal *Water*. Mary Belle is a Ph.D. candidate in Arid Lands Resources Sciences at the UArizona. WRRC Director Sharon B. Megdal co-authored the article and serves as Mary Belle's dissertation committee chair. The article provides an overview of Managed Aquifer Recharge (MAR) as a groundwater management tool in arid, semi-arid, and water-scarce regions in Mexico. By examining MAR projects conducted over the past 50 years, Mary Belle explored the legal framework for MAR to identify regulatory challenges and opportunities. Through this study, Mary Belle finds that beyond the technical challenges normal to MAR projects, the regulatory framework for MAR poses a barrier to the development of facilities in Mexico. This article is open access.



Download [here](#)

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## Students Explore the Mysteries of Groundwater at Sunrise Elementary School Science Day



Over 100 students came together at Science Day to learn just what's going on with our groundwater. APW AmeriCorps Water Educators ventured to Sunrise Elementary School last week to teach 3rd-5th grade students about the groundwater here in

Tucson. At Science Day, our educators used 3D models to help the students explore Tucson's groundwater system. The kids began their journey by observing how water moves through earth materials. Next, they widened their perspective to understanding why gravity is important in our groundwater system and how technology, such as pumps, helps us access water every day. Lastly, students modeled the connection between groundwater and surface water and made even broader connections to the water cycle. One of our AmeriCorps Water Educators, Emillie Castrichini, described the day: "It was such a welcoming environment and the students were so amazing. Everyone was excited to learn and it ended up being such a rewarding day!"



## [APW](#)

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## Where Are They Now? Nate Delano

WRRC alum Nathaniel Delano worked at the center as a Graduate Research Assistant from 2013 to 2015 and helped develop the fourth iteration of the Arizona Water Map. After graduating from UArizona with his MS in Water, Society, and Policy, he was offered a Presidential Management Fellowship and moved to New York City to work for the EPA. Although he loved his work on Clean Water Act regulation in Puerto Rico and the US Virgin Islands, he returned West in 2017 to work at the EPA's Region 8 office in Denver. He works on Safe Drinking Water Act regulation through technical assistance for tribal water systems, administration of a sanitary survey program, and coordination with the EPA's enforcement division. He is particularly proud of his role on the technical review team for a large-scale variance to Denver Water's Lead and Copper Rule, where his team worked to find a solution to improve both public health protection and drinking water quality.



## Envirothon Judges Needed

Arizona Envirothon is a competition for high school students to demonstrate their knowledge and problem-solving skills in environment-related fields. This year the topic is water resources management, and individuals from diverse backgrounds are needed to judge the oral presentation portion of the competition. Volunteers will form judging panels who rate the presentations of 5-member teams, using Envirothon's scoring criteria. Judges are provided lunch, refreshments, and an Envirothon t-shirt.

[Judges needed](#)





## ANNOUNCEMENTS

- **February 14:** ADWR WMAP Groundwater Conservation Grant - Applications Due
- **February 18:** WaterReuse 2020 Symposium - Abstracts Due
- **February 19:** American Indian Studies - Athlete in Residence Speaker  
Series: Forrest Shearer
- **February 21-22:** Upper Gila Watershed - 3rd Annual Forum
- **February 24:** Job - Water Resources Manager, Arizona Department of Water Resources - 1st Application Review
- **February 25:** ADEQ Public Meeting - Waters of Arizona
- **February 26-28:** L&WS Climate Ready Water Management Summit - Registration Open
- **March 2:** BSMAR 17 - Resilience Through Recharge and Recovery - Early Bird Registration Ends
- **March 3-4:** CAP Board - Strategic Planning Stakeholder Forums - Registration
- **March 12-13:** Annual Law of the Colorado River Conference - Registration Open
- **March 16:** Journal for Contemporary Water Research and Education - Call to Authors Extended
- **March 23-26:** AWRA 2020 Spring Conference - Registration Open
- **March 31:** Santa Cruz Watershed Collaborative Spring Forum
- **April 1:** Babbitt Center for Land Water Policy - Dissertation Fellowship Program - Applications Due
- **April 20:** UCOWR/NIWR - 2020 Annual Conference - Early Bird Registration Ends
- **May 11-12:** Ben-Gurion University of the Negev International Water Summit - Registration Open
- **June 14-17:** ACE20 - Registration Open

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