

WEEKLY WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION

**WATER RESOURCES
RESEARCH CENTER**



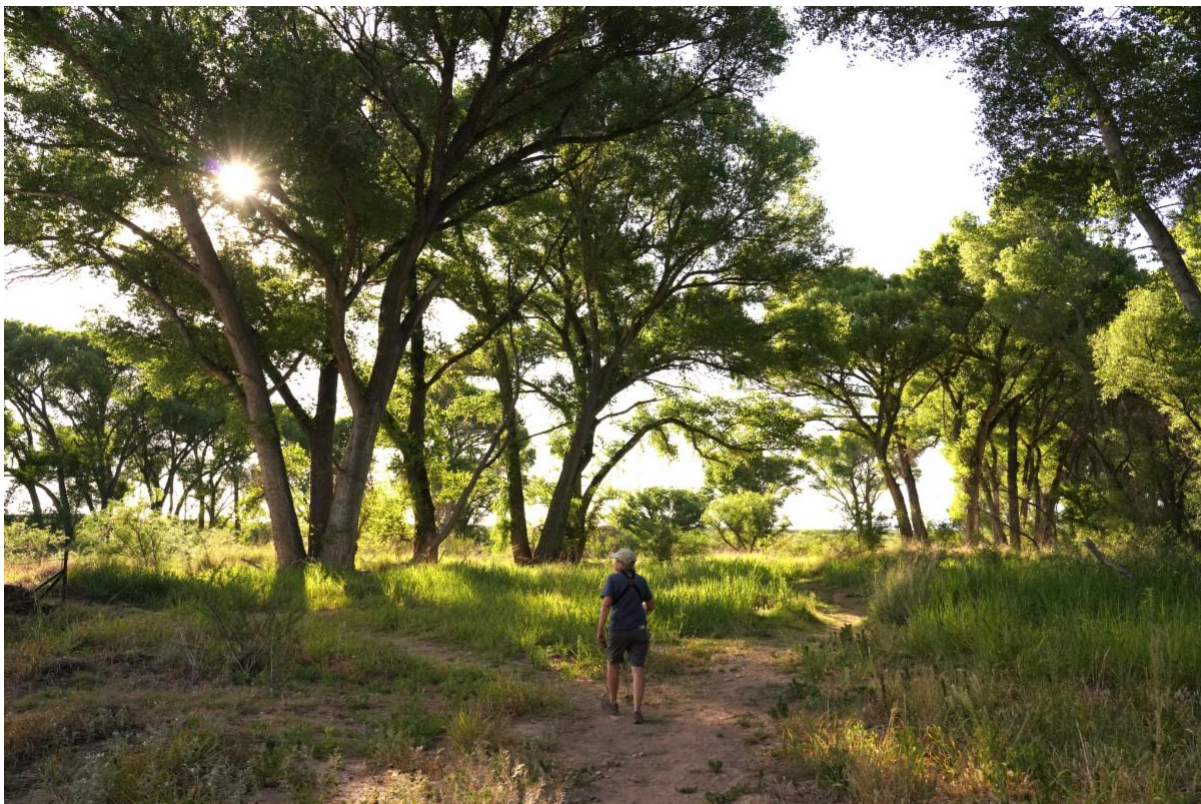
Apr 16, 2021 / Volume 9, Issue 15

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: Story Map, Brown Bag Recap, MAR, APW, We Are Water



**Health and Function of Arizona
Watersheds Story Map**

A story about watersheds is a story about land and water. On Friday, April 16, Arizona Project WET, in partnership with the Kyl Center for Water Policy at Morrison Institute and the National Forest Foundation, is launching a new and engaging online resource: "Health and Function of Arizona Watersheds Story Map." This story map connects our water supply in Arizona to the landscapes we depend on - both in the natural and built environments. Drill down into the relationships between land and water, and study forest health, devastating wildfire, the built environment, climate change, and our amazing biodiversity. Water both nurtures and erodes our land. Changes in the land affect our water quality and supply. Watershed and forest health are integral parts of the Arizona water story. Powered by ArcGIS StoryMaps, the watershed story map pulls together interactive maps, photographs, videos, and text to provide an informative resource for all. The project highlights that we are all watershed managers and issues a call to get involved!

[Explore the Story Map](#)

EVENTS

Water Solutions for Our Warmer World Series Episode 2: Water and COVID-19 in Indian Country

Date: Wednesday, Apr 21, 2021

Time: 4:00 pm-5:30 pm MST

Moderated by Toni Massaro, *Interim Director of the Agnese Nelms Haury Program in Environment and Social Justice*



Join the Arizona Institutes for Resilience for the second episode of the Water Solutions for Our Warmer World series, "Water and COVID-19 in Indian Country," co-hosted by the UArizona Udall Center and WRRC! The public webinar will explore water-related challenges Tribes are experiencing and solutions and partnerships addressing these challenges. Please join President Nez of the Navajo Nation and Chairwoman Lee-Gatewood from the White Mountain Apache Tribe and other Tribal experts as they share their perspectives.

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

Upcoming WRRC Events

May 5: [Brown Bag Webinar - OpenET – Filling One of the Biggest Data Gaps in Water Management](#)

Robyn Grimm, *Senior Manager - Water Information Systems, Environmental Defense Fund - Western Water Program*

May 19: Water Solutions for Our Warmer World series, **[Episode 3: The Realities of Adaptation in the Water Sector](#)**



May 24-26: [International Arid Lands Consortium Virtual Conference Addressing the Environmental Challenges of Arid Lands](#)

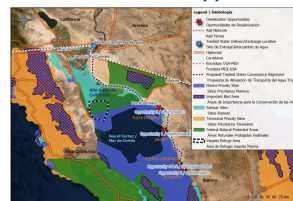
NEWS

Binational Workgroup Studies Desalination Opportunities

On Thursday, April 8, the WRRC hosted Chuck Cullom, Colorado River Programs Manager, Central Arizona Project, and Lela Perkins, PE, Senior Water Resources Engineer, Jacobs Engineering Group for a Brown Bag webinar entitled “Binational Seawater Desalination Study - Sea of Cortez Region.”

The presentation described the context for the study, including the importance of Minute 323, which recognizes the opportunity for binational collaboration between Mexico and the US on Colorado River water augmentation projects that benefit water users in both countries. A unique workgroup that included federal and state representatives of both Mexico and the US, water agencies, and NGOs, was created to explore desalination opportunities in the Sea of Cortez region. Results of the study indicate that desalination projects are technically and financially feasible. The workgroup also considered approaches to reducing impacts to environmentally sensitive areas.

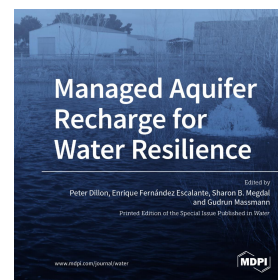
Potential Desalination Opportunities



- [View the Recording and Slides](#)
- [Read the Executive Summary](#)
- [Read the Technical Memoranda](#)

Collection of Managed Aquifer Recharge Papers Published

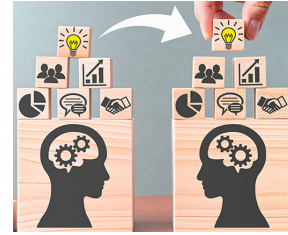
Managed Aquifer Recharge (MAR) has long been utilized to help meet water management objectives. In 1978, the first symposium on artificial recharge was held in Phoenix, Arizona. Then, in 1988 the American Society of Civil Engineers organized the First International Symposium on Artificial Recharge of Groundwater in Anaheim, California, launching what is now known as the International Symposium on Managed Aquifer Recharge (ISMAR). Released this month, “Managed Aquifer Recharge for Water Resilience” is a collection of some of the works presented at ISMAR10, held in Madrid, Spain, in 2019. The book is a compiled edition of the Special Issue published in the journal *Water*. It includes MAR cases from 14 countries and was collaboratively edited by Peter Dillon, Enrique Fernández Escalante, Sharon B. Megdal, and Gudrun Massmann. In their preface to the Special Issue, the editors note: “This Special Issue strives to elucidate the effectiveness, benefits, constraints, limitations, and applicability of MAR, together with its scientific advances, to a wide variety of situations that have global relevance.” The book catalogs the articles into three categories: water security improvement, water quality improvement, and environmental protection and restoration. The book is available online as an open-access PDF.



[Download the Book](#)

A New Era of APW Professional Development

Summer is coming, which means it's time to once again help teachers deepen their knowledge and evolve their instructional practices through Arizona Project WET (APW) professional development (PD). APW recognizes that continuous learning is an important part of an educator's life. When educators attend APW PD, they receive relevant, real-world resources, data and information, as well as support from APW staff throughout the year. This year, APW is offering workshops and academies that explore the Colorado River Watershed and management; the Salt River Project system; how to "Build Your Own Basin" to support plants and mitigate heat; outdoor science investigations; land and water relationships at the second-grade level; how to build systems thinking skills; Arizona's distinct hydrological cycle; and our fourth grade Arizona Water Festival unit. Visit the new [APW PD website](#) for more details on our PD programming, including dates and descriptions. As educators may be in different stages of remote and in-person working environments, APW will continue to provide PD online, enabling us to reach new audiences and those with a preference for remote learning. Additionally, educators in remote areas will now be able to participate in PD opportunities not previously available to them.



[APW PD](#)

Online Resource Connects Communities

"We Are Water" is a program funded by the National Science Foundation and is designed for communities in the Four Corners region of the Southwestern US. This program is part of the Cooperative Institute for Research in Environmental Sciences (CIRES), a partnership of the National Oceanic and Atmospheric Administration and the University of Colorado Boulder. The website features valuable resources that include educational water lessons and activities, as well as stories and events. For example, the website connects communities to the "Hardest Working River in the West" StoryMap, produced by the Babbitt Center for Land and Water Policy, and the "Colorado River Water Supply" activity, created by the Encyclopedia of Earth. The University of Colorado Boulder also offers a 15-hour self-paced online course entitled "Water in the Western US." Other organizations, such as USGS and NASA, have collaborated with the "We Are Water" program to design educational opportunities. The website also offers a virtual book club, photos, videos, and podcasts about water in the West. Keep up on news and events from "We Are Water" by subscribing to their newsletter.



- [We Are Water Website](#)
- [Colorado River Water Supply Activity](#)
- [The Hardest Working River in the West StoryMap](#)

- WRRRC [Summer 2021 Writing Internship](#)
- Maricopa County [Floodplain Permitting Division Manager](#)
- Town of Prescott Valley [Water Resources Coordinator](#)
- ADWR Open Positions: [Surface Water Section Manager](#), [Water Resources Specialist I](#), [Water Resources Specialist III](#), [Water Resources Specialist III, Compliance Enforcement Coordinator](#), [Adjudications Assistant Manager](#), [Dam Safety Engineer](#), [Dam Safety Engineer](#), [Adjudications Support Team Supervisor \(ASO II\)](#), [Application Developer](#)

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

ANNOUNCEMENTS

- **Apr 16-Apr 29:** [Programming for Geospatial Hydrological Applications](#)
- **Apr 18-May 9:** [Re-envisioning the Middle East Ecosystem: Desert Ecology and Environmental Diplomacy](#)
- **Apr 19:** [Global Environmental Sciences Summit – Abstracts Deadline](#)
- **Apr 21:** Water Solutions for Our Warmer World series, Episode 2: [Water and COVID-19 in Indian Country](#)
- **Apr 22:** [UArizona, Maricopa County Cooperative Extension 2021 Advanced Smartscape: Irrigation course](#)
- **Apr 22:** [ADWR Water Awareness Month Webinar: Principles of Water-Wise Landscaping](#)
- **Apr 22:** [Transforming Needs into Assets: Establishing a Watershed Partnership to Address Environmental and Economic Challenges](#)
- **Apr 24:** [Rio Earth Day Salt River Cleanup \(Rio Earth Day Cleanup Week Apr 17-24\)](#)
- **Apr 30:** [NWRI Fellowship Program 2021 – Application Deadline](#)
- **May 5:** [UCOWR 2021 Virtual Roundtable Series: Green Infrastructure for Stormwater Management](#)
- **May 10-12:** [International Conference on Water Energy Food and Sustainability \(ICoWEFS 2021 - Leiria, Portugal\)](#)
- **May 18-20:** [11th International Conference on Sustainable Water Resources Management: Effective Approaches for River Basins and Urban Catchments \(Milan, Italy\)](#)
- **May 18-20:** [French American Innovation Days: Facing the Predictably Unpredictable](#)
- **May 19:** [5MP Agricultural Subgroup Meeting](#)
- **May 19:** Water Solutions for Our Warmer World series, Episode 3: [The Realities of Adaptation in the Water Sector](#)
- **May 21:** [30th Annual Desert Horticulture Conference](#)
- **May 24-26:** [International Arid Lands Consortium Virtual Conference Addressing the Environmental Challenges of Arid Lands](#)
- **May 26-27:** [Problematic Groundwater Contaminants: More than PFAS Forum](#)
- **Jun 1:** [2021 Central Arizona Project Award for Water Research – Application Deadline](#)
- **Jun 8-10:** [UCOWR/NIWR Annual Water Resources Conference](#)
- **Jun 14-17:** [ACE21 - Registration Open](#)
- **Jun 22-23:** [WEF SWI Stormwater Summit 2021](#)
- **Jun 22-23:** [Fate of PFAS: From Groundwater to Tap Water](#)
- **Jul 1:** [Women in Water Scholarship - Application Deadline](#)
- **Jul 19-21:** [AWRA 2021 Virtual Summer Conference Connecting Land & Water for Healthy Communities - Registration Open](#)
- **Aug 30-Sep 1:** [WRRC 2021 Annual Conference, Tribal Water Resilience in a Changing Environment](#)

- **Sep 13-15:** [GRA 4th Annual Western Groundwater Congress](#)
- **Sep 15-17:** [2021 AHS Symposium](#)
- **Oct 20-21:** [The Third International Congress on Desert Economy: *Energy Economics between Deserts and Oceans* \(Dakhla, Morocco\)](#)
- **Oct 21:** [*Imagine a Day Without Water*](#)
- **Nov 1-5:** [AIWW 2021: *Connect & Act to Make Water Work* – Save the Date](#)
- **June 14-16, 2022:** [UCOWR 2022 Annual Water Resources Conference – Save the Date](#)
- **Sep 11-15, 2022:** [IWA World Water Congress & Exhibition - *Water for Smart Liveable Cities* \(Copenhagen\)](#)

Visit our Website