

# SUMMER WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES  
COOPERATIVE EXTENSION

**WATER RESOURCES  
RESEARCH CENTER**



**July 1, 2021 / Volume 9, Issue 3**

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 Summer Wave.](#)

[WRRRC Office Update](#)

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**IN THIS ISSUE:** WRRRC Annual Report, Brown Bag Recap, Statewide ANR Retreat, APW, Michael Seronde, Tipping Points, Arizona 360



**2020**  
**ANNUAL  
REPORT**

**WRRRC 2020 Annual Report Released**

The University of Arizona Water Resources Research Center is pleased to announce the publication of its *2020 Annual Report*. The report highlights how the WRRRC adapted to meet the challenges of 2020, finding opportunities for greater engagement, outreach, and

connection. It focuses on our efforts to assist in understanding and resolving real-world water resource issues and includes information on our organization, staff, and financial status. Appendices contain details on specific activities and progress toward strategic goals. Our two-page 2020 Highlights provides summary information on our engagement, links to online WRRRC resources, and the 2020 financial summary.

The [WRRRC 2020 Annual Report](#) and [WRRRC 2020 Highlights](#) are available on our website, along with [appendices and past reports](#).

*Image: Sandy Shiloh, Whitewater Draw, WRRRC Photo Contest*

## EVENTS

### [Aug 26-27: 29<sup>th</sup> Annual Arizona Water Law Conference](#)

#### **WRRRC 2021 Annual Conference: *Tribal Water Resilience in a Changing Environment***

**Dates:** Aug 30-Sep 1

**Location:** [Zoom](#)



The University of Arizona Water Resources Research Center is excited to open registration for the 2021 Annual WRRRC Conference, *Tribal Water Resilience in a Changing Environment*. Held virtually over three days, August 30-September 1, the program will offer information, diverse perspectives, networking, and much more. The conference will kick off with an afternoon session (1-4 PM Arizona time) on Monday, August 30, followed by morning sessions (8-11 AM Arizona time) on Tuesday, August 31, and Wednesday, September 1. In addition, special conference activities will be scheduled for Tuesday afternoon.

Visit our conference [webpage](#) for updates on the agenda and additional information, including how to become a conference sponsor! Please feel free to post and share this registration announcement to help us get the word out. We hope you will join us!

[Register Here](#)

## NEWS

#### **Seminar Explores Collaborative Climate Actions in Binational Watersheds**

The WRRRC Brown Bag seminar on June 17 explored the mitigation of flooding, erosion, and related problems, including sewage overflows, in the binational context of Ambos Nogales and Tijuana/San Diego; cities straddling the US-Mexico border. Laura Norman, who has worked with the US Geological Survey since 1998, focusing on transborder pollution and watershed issues since 2002, took the online audience through a series of research projects involving cross-border collaborations and cooperation. Her theme was climate change adaptation and mitigation strategies for arid and semi-arid watersheds. Specifically, her research in the watersheds of binational twin cities has been establishing



quantifiable metrics that support the use of flood detention structures, such as check dams and gabions, which slow surface flows much like beaver dams, and can be installed through community engagement. Evidence from her research indicates that such structures reduce flood peaks, increase base flows, extend streamflow longer into the dry season, and capture sediment, thus decreasing erosion and improving water quality. In addition, these structures sequester carbon and may increase recharge of groundwater.

Contact [Laura M Norman](#) to find out more about this research.

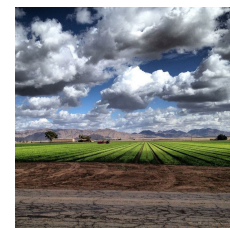
Contact [Francisco Lara-Valencia](#) about the work in Ambos Nogales and/or to register for *Green Infrastructure in Ambos Nogales: Today and Tomorrow*, July 8-9, 2021.

*Image: Valer Austin*

## [Webinar Recording and PDF USGS Aridland Water Harvesting Study](#)

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### **Statewide Event Connects and Informs UArizona CE Personnel on Agriculture and Natural Resource Issues**



Ever-changing economic, climate, and natural resource conditions are affecting Arizona's landscape. To better serve stakeholders and keep abreast of current issues, University of Arizona Cooperative Extension personnel gathered in mid-June to take a deep dive into statewide agricultural and natural resources issues, focusing on how we can learn from each other to be better prepared for the future. The three-day session began with a rich discussion of water issues, headlined by an overview presentation by WRRRC Director Sharon B. Megdal, which built on information and graphics displayed on the WRRRC's Arizona Water Map. The presentation was followed by a panel discussion featuring Dr. Megdal as well as WRRRC Water RAPIDS Program Director Ashley Hullinger and Food Safety Education Asst. Professor of Practice Dr. Margarethe Cooper. The event continued with presentations ranging from integrated pest management to climate, urban and rural agricultural and natural resource issues, and economic realities facing our state's farmers. As an in-service event, the conference also featured strategic exercises and presentations to help faculty and staff succeed, including a presentation by former WRRRC Associate Director and current Assistant Dean for Faculty Advancement Dr. Jean McLain. As a boundary organization, Cooperative Extension has a pivotal role translating science to application. Meetings like this one help Extension professionals stay connected and relevant in today's world.

*Image: Stevi Zozaya, Home Grown Yuma, WRRRC Photo Contest*

### [AZ Water Issues Presentation](#)

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### **Fabric of Science Communication**

The underlying structure or framework of something is often referred to as *fabric*. Ask quilters about *fabric* and you will quickly receive a catalogue of terms including calico, backing, batting, muslin, applique, and blocks. So, what happens when you combine the many meanings of the term *fabric* and use them as a tool to communicate science? The

**Quilt Your Science** project was created out of a meet-up with APW's Education Outreach Coordinator Betsy Wilkening and Dr. Laura Guertin, a Penn State Earth Sciences professor, at the 2020 online American Geophysical Union (AGU) Fall Meeting. Scientists and educators are dedicated to understanding the underlying structure of our world and communicating this understanding to larger audiences. The Quilt Your Science challenge is to create a mini quilt or a square illustrating your work in earth and space science research, communication, or education that engages an audience in your science journey, whether it be unlocking Earth's secrets, exploring the heights of our atmosphere to the depths of our ocean, or teaching others about the wonders of our universe. Quilts will be showcased in a virtual gallery and highlighted in a community meeting at the 2021 AGU Fall Meeting. Learn more at the website below and join our Slack Community.



[Quilt Your Science](#)  
[SciQuilt21 Slack Community](#)

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## Michael Seronde Selected for Rural Leadership Program

WRRRC Program Manager Michael Seronde was selected to participate in the Arizona Center for Rural Leadership's (Project CENTRL) year-long seminar series. As a member of Class 30, Seronde will participate in nine seminars, including The Fundamentals of Leadership, Effective Communication, Emerging Trends in Rural Arizona, Public Policy in Arizona, with an international trip to Mexico, a trip to Washington, DC, and more. Project CENTRL is a non-profit organization committed to improving the development of Arizona leaders and establishing a network of problem solvers, decision-makers, and spokespersons for rural Arizona.



[Project CENTRL](#)

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## Drought Webinar Features Student Research and Leadership

On June 17, which was World Day to Combat Desertification and Drought, Paris Sciences and Letters University (PSL) in France, in collaboration with the University of Arizona, held the webinar *Tipping Points: Desertification, Drought and Climate Justice*. The webinar featured presentations from Régis Ferrière, Professor in Ecology and Environmental Biology at UArizona and École Normale Supérieure – PSL, WRRRC Director, Sharon B. Megdal, and Nikki Tulley, PhD candidate in the UArizona Department of Environmental Sciences. Following the presentations, speakers engaged in a conversation moderated by PSL Vice President for International Relations Emilienne Baneth. Joining the presenters for the panel discussion was Germain L'hostis, a student at PSL and co-leader of PSL Anthropocene, a curriculum intended to promote awareness and training of PSL students to tackle global environmental challenges.



[Read More](#)

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## AZPM Airs UArizona Experts on Fire, Water, and Drought

On June 18, experts from the University of Arizona appeared on Arizona Public Media's *Arizona 360* with Lorraine Rivera, KUAT PBS Channel 6, to discuss wildfire and water supplies in the context of the exceptional drought conditions, which predominate throughout the state. Professor of Applied Climatology Michael Crimmins provided insight into how drought and climate change have impacted this year's wildfire season and may affect the months ahead. WRRC Director Sharon B. Megdal answered questions about water supplies in the Colorado River Basin, specifically, how the upcoming Tier 1 shortage declaration under the 2019 Drought Contingency Plan will affect Arizona's water future.



### [Arizona 360 Video](#)

## WATER JOBS

- AMWUA [Water Policy Advisor](#)
- City of Tucson Water [GSI Outreach Coordinator](#)
- City of Chandler [Water Resource Advisor](#)
- Business for Water Stewardship [Arizona Business Engagement Professional](#)
- UArizona AZ Project WET [Outreach Instructional Specialist II](#)
- UArizona Pima County Cooperative Extension and AZ Project WET [Recharge the Rain Summer Externship](#)
- ADEQ Water Quality Division [Temporary Researcher](#)

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

## ANNOUNCEMENTS

- **Jul 1:** [2021 Central Arizona Project Award for Water Research](#) – Deadline **EXTENDED**
- **Jul 1:** [Women in Water Scholarship](#) - Application Deadline
- **Jul 12-15:** [Seventh Sovereign - Tribal Engagement Live Online Trainings](#)
- **Jul 13:** [AHS Tucson Monthly Chapter Meeting: Using Effluent Water to Preserve the Gila Topminnow Habitat in the Santa Cruz River: the Pima County CEP Project](#)
- **Jul 19-21:** [AWRA 2021 Virtual Summer Conference Connecting Land & Water for Healthy Communities](#) - Registration Open
- **Jul 28:** [AZ Water Association WORKSHOP: Drought Preparedness Plans - Part 2](#)
- **Jul 30:** [11<sup>th</sup> International Symposium on Managed Aquifer Recharge](#) – Abstract Deadline **EXTENDED**
- **Aug 9-11:** [AACD Summer Conference 2021: Working Together to Conserve AZ](#)
- **Aug 26-27:** [29<sup>th</sup> Annual Arizona Water Law Conference](#)
- **Aug 30-Sep 1:** [WRRC 2021 Annual Conference, Tribal Water Resilience in a Changing Environment](#)
- **Sep 13-15:** [GRA 4<sup>th</sup> Annual Western Groundwater Congress](#)
- **Sep 14-15:** [Texas Desal 2021 Virtual Conference](#)
- **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](#)
- **Nov 8-10:** [AWRA 2021 Annual Water Resources Conference](#)
- **Apr 11-15, 2022:** [11<sup>th</sup> International Symposium on Managed Aquifer Recharge](#)

- **Jun 14-16, 2022:** [UCOWR 2022 Annual Water Resources Conference](#)
- **Sep 11-15, 2022:** [IWA World Water Congress & Exhibition - \*Water for Smart Liveable Cities\* \(Copenhagen\)](#)

## PUBLICATIONS & MEDIA

[\*A Strategy for the National Coordinated Soil Moisture Monitoring Network\*](#)

[\*Environmental Science & Policy Special Issue: New Directions in Hydrodiplomacy to Meet Global Water Challenges: Learning from the Past, Shaping the Future\*](#)

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

[Contact us here](#)

Visit our Website