



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION

WATER RESOURCES RESEARCH CENTER

2018 Highlights

GREATER DEPTH, BROADER PERSPECTIVE FOR A CLEAR WATER FUTURE

We tackle key water policy and management issues, empower informed decision-making, and enrich understanding through engagement, education, and applied research.

wrrc.arizona.edu

Photo: WRRC photo contest winner Talia Chorover - *Reflection in Standing Water Adjacent to Sabino Creek* (cropped). See this and other contestant photos: <https://wrrc.arizona.edu/photo-contest-2018-winners>

2018 HIGHLIGHTS

The University of Arizona Water Resources Research Center

973 engagements with diverse partners and collaborators on projects and programs

32 External Advisory Committee members

2,475 subscribers to the electronic *Arizona Water Resource* newsletter and *Arroyo* annual publication

2,630 subscribers to the *Weekly Wave* e-News Digest

333 Annual Conference registrants

361 presentations, workshops, and training sessions conducted by Arizona Project WET

72 presentations made by WRRC personnel

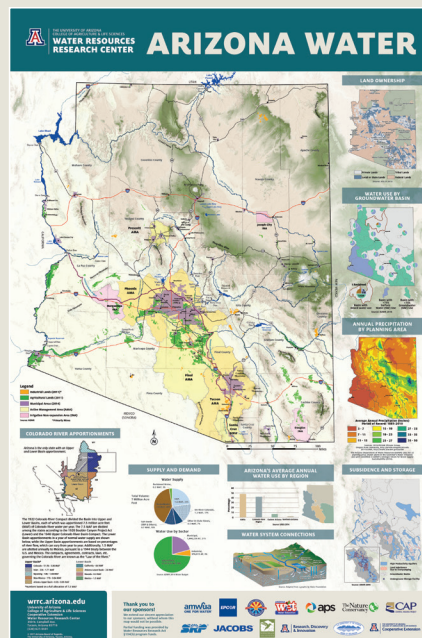
26 publications by WRRC personnel

ANNUAL REPORT

Detailed information and metrics can be found on our website:

wrrc.arizona.edu/annual-report-2018

ARIZONA WATER MAP POSTER



Order your map here:

wrrc.arizona.edu/arizona-water-map-form

OUTREACH & ENGAGEMENT

The WRRC conveys water research results and information to researchers, water managers, policy makers, and the public. The Center reaches out through publications, conferences, lectures, seminars, videos, presentations, and workshops.



ANNUAL CONFERENCE



333 PEOPLE

REGISTERED FOR THE 2018 CONFERENCE
The Business of Water



26 Speakers
and panelists



Spring 2018 AWR Newsletter
recaps key messages from
the conference



18 Conference
sponsors



Presentations available
on the WRRC website



BROWN BAG SEMINARS



710 ATTENDANCE

IN PERSON AND VIA ONLINE WEBINARS



25 Speakers
including local,
national, and
international
experts



210 additional
online views
following
the presentations



STATEWIDE ENGAGEMENT

33 COMMUNITIES REACHED

THROUGH WRRC ACTIVITIES ACROSS ARIZONA



DIRECTOR'S ACTIVITIES



33 ENGAGEMENT ACTIVITIES

SPANNING FROM
ARIZONA TO ISRAEL



11 PUBLICATIONS

INCLUDING POSTED MATERIALS
AND PAPERS



12.9K INDIVIDUALS REACHED

THROUGH ENGAGEMENT
ACTIVITIES (ESTIMATED)



7 STUDENTS ADVISED

ON ARIZONA, NATIONAL,
AND GLOBAL WATER POLICY

SELECTED PROGRAMS

The WRRC houses programs that focus on research, education, and community outreach and engagement. Programs are directed and coordinated by WRRC personnel and cover a spectrum of topics, including water management, planning and policy, groundwater governance, conservation, water harvesting, transboundary cooperation, water for natural areas, and water quality.



700 PEOPLE
ENGAGED IN UNDERSTANDING
WATER RESOURCES



20+ outreach activities from community conversations to water budget workshops



Supporting and building local partnerships to increase the resilience of rural Arizona



460 TEACHERS
ENGAGED 26,650 STUDENTS THROUGH
IMPROVED INSTRUCTIONAL PRACTICES
DEVELOPED IN TEACHER ACADEMIES



2.7 million gallons of water per year in projected savings from student-installed conservation devices



32,800 students engaged in learning by Arizona Project WET facilitators



62% average STEM learning gain resulting from APW teacher workshops

GROUNDWATER PROGRAMS



Groundwater Governance & Management
Making Groundwater Visible



PERSPECTIVE ESSAY INVITED

"INVISIBLE WATER: THE IMPORTANCE OF GOOD GROUNDWATER GOVERNANCE AND MANAGEMENT," FOR NPJ CLEAN WATER, A NATURE PARTNER JOURNAL



10 state, national, and international presentations to disseminate research



4 publications in refereed journals and the book, *Lake Governance*



Transboundary Aquifer Assessment Program (TAAP)



22 PARTNERS

COLLABORATED IN BINATIONAL RESEARCH AND ENGAGEMENT ON SHARED AQUIFERS, INCLUDING THE SAN PEDRO RIVER AND SANTA CRUZ AQUIFERS



15 presentations for professional & academic conferences, stakeholders, and community groups



3 published articles on TAAP concepts, activities, and results



Water Quality
Research Lab

\$2.7 MILLION
IN COLLABORATIVE FUNDING



Lead Research Scientist named to 13 international, national, and local advisory boards focused on antibiotic resistance and water quality



Training tomorrow's researchers: 100% of graduates employed or admitted to graduate programs



17 MILLION
GALLONS CONSERVED BY PARTICIPANTS



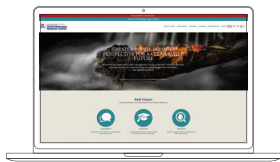
33,000 gallons average saving per participant



\$100,000 donated by participants to 11 community enhancement projects since 2011

TRACK YOUR WATER SAVINGS ON THE C2E™ DASHBOARD
conserve2enhance.org

ONLINE RESOURCES



WRRC Website

The website posts WRRC programs, activities, news, and events. Seminars are streamed live and posted. Publications, Annual Conference presentations, and online resources are linked for easy access. The site facilitates conference registration, photo contest submissions, water map purchases, and Weekly Wave subscriptions. In 2018, page views increased 23% to 128,900.

wrrc.arizona.edu



Arizona Project WET

Arizona Project WET (APW) develops water stewardship and STEM literacy by providing teacher professional development that evolves instructional practice and deepens content knowledge, direct student outreach that delivers or extends classroom learning, and community engagement.

arizonawet.arizona.edu



Beyond the Mirage

Beyond the Mirage is an innovative web-based experience that encourages users to explore Arizona's water supplies, demands, challenges, and opportunities by creating mini-documentaries. The *Beyond the Mirage* professional feature documentary is also available for streaming through Amazon.com and YouTube.

BeyondTheMirage.org



UA Water Network

The UA Water Network showcases more than 280 faculty and researchers in 48 departments and programs who specialize in topics related to water. The site provides a jobs and opportunities page and information about water-related institutions, seminars, newsletters, and on-line tools.

water.arizona.edu



Desert Water Harvesting Initiative

This website enhances outreach and communication between utilities, practitioners of water harvesting, academics, and interested citizens. It contains the Water Harvesting Assessment Toolbox, which provides guidance for groups to evaluate their water harvesting options.

wrrc.arizona.edu/DWHI



Conserve2Enhance Water Use Dashboard™

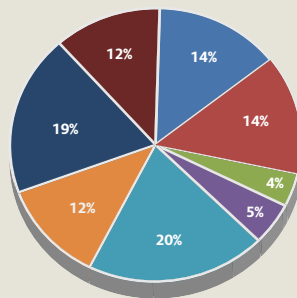
Conserve2Enhance connects voluntary water conservation with community action.

Sign up at conserve2enhance.org to get conservation tips, track water savings, and make your drops count!

conserve2enhance.org

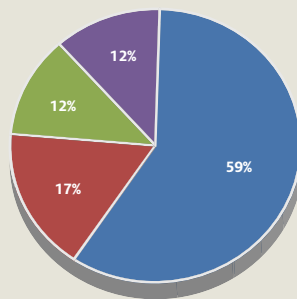
2018 FINANCIAL SUMMARY

Operating Support & Revenue



| | |
|------------------------------------|--------------------|
| State Appropriations | \$263,885 |
| Federal Grants | \$330,646 |
| WRRR / NIWR Funds | \$76,594 |
| State Grants | \$94,500 |
| Private or Other Grants | \$363,791 |
| Sales and Service Activities | \$218,829 |
| Technology and Research Initiative | \$342,874 |
| Gifted Funding | \$211,590 |
| Total | \$1,826,114 |

Operating & Program Expense



| | |
|--------------------|--------------------|
| Salaries and Wages | \$1,109,965 |
| Fringe Benefits | \$323,648 |
| Operating Expense | \$231,514 |
| Program Expense | \$225,858 |
| Total | \$1,890,984 |

KEEP UP WITH WATER NEWS AND EVENTS

SUBSCRIBE

To the **Weekly Wave** – the e-News Digest that offers the latest water news, events, and announcements from the WRRC and beyond.

At the same time, you can subscribe to **Arroyo** – the annual publication that each year examines a topic of importance to Arizona. The 2018 *Arroyo* discussed “Water and Irrigated Agriculture in Arizona.”

wrrc.arizona.edu/subscribe

The University of Arizona
Water Resources Research Center
A unit of Arizona Cooperative Extension
Member of The National Institutes For Water Resources
 350 N. Campbell Ave.
 Tucson, AZ 85719
 (520) 621-9591



The WRRC is Arizona's federally authorized Water Resources Research Institute (WRRRI), and as such, is one of 54 members of the National Institutes for Water Resources, an organization that coordinates WRRRI programs nationally.
niwr.info

