

University of Arizona Water Resource Research Center, Annual Report 2021

Appendix B

Section 1 – WRRC Grants and Contracts Received

Title	Sponsor
Arizona Project WET	Arizona Department of Water Resources
Arizona Project WET - Tucson AMA Intergovernmental Agreement	Arizona Department of Water Resources
Arizona Project WET - Abbott Foundation Support	Abbott Family Foundation
Arizona Project WET - SRP Water Festival Support	Salt River Project
Arizona Project WET - Recharge the Rain: Community Resilience through STEM Education	Watershed Management Group
Bringing Microbiology and Water Quality	US Department of Agriculture
Flagstaff Water EduThermo Scientific Sorvall LYNX 4000 Superspeed Centrifuge, 200-240V, cation Program	City of Flagstaff
Building Water Scenarios to Support Community Planning in Rural Arizona Through Collaborative Stakeholder Engagement Process Design	Bureau of Reclamation
Transboundary Aquifer Assessment Program	US Geological Survey
104(b) State Water Resources Research Institute Program	US Geological Survey
Sustaining Groundwater and Irrigated Agriculture in the Southwestern United States Under a Changing Climate	University of California Davis
Data Visualization and Platform Prototype for Small and Medium Sized Community Water Systems in Arizona	The Lincoln Institute of Land Policy
Town of Superior - Queen Creek Coordination and Facilitation to Support Stream Restoration and Instream Flows	The Resolution Copper Company
County Authority to Integrate Land and Water Planning in Arizona: AZ GWS Curriculum Update	The Lincoln Institute of Land Policy

Section 2 – WRRC 104b Water Research Grants

Title	University	Amount
2019		
Detecting Colorado River Tamarix Phenology Using Publicly Available Satellite Images	Northern Arizona University	\$9,152
A Citizen Science Approach to Monitoring Water Resources in a Vulnerable Aquifer	University of Arizona	\$10,000
Solar Nanofiltration for Off-Grid Water Purification in Navajo Nation	University of Arizona	\$8,000
2020		
Flow Discharge Measurements Using Small Unmanned Aerial Systems	University of Arizona	\$10,000
Removal of Microplastics by Soil Aquifer Treatment of Reclaimed Wastewater	University of Arizona	\$9,990
2021		
Distribution of Groundwater Ages to Constrain Paleo- to modern Recharge	University of Arizona	\$3,807
Diversifying Voices in Water Resources	University of Arizona (WRRC)	\$23,269

Section 3 – WRRC Media Appearances

Date	Title	Outlet	URL
April 12, 2021	Extreme conditions now sparking drought contingency plan for first time.	TV- KOLD	https://www.kold.com/2021/04/12/years-drought-now-sparking-drought-contingency-plan-first-time/
June 18, 2021	Arizona 360, Lorraine Rivera, KUAT PBS Channel 6, (Interview on water shortages) (Airs in Phoenix KAET PBS Channel 8 on PBS World.)	Arizona 360	https://tv.azpm.org/p/arizona360-video/2021/6/18/196188-telegraph-fire-water-shortages-mandating-vaccines/
August 12, 2021	Section on drought	Skimm this Podcast	https://www.theskimm.com/news/the-best-laid-plans-afghanistan-droughts-and-back-to-school-2ufyVWWlx36QlkHzKAUhCS
August 16, 2021	Comments on Tier 1 Colorado River Shortage Declaration	The Washington Post	N/A
August 16, 2021	Comments on Tier 1 Colorado River Shortage Declaration	The New York Times	N/A
August 17, 2021	Comments on Tier 1 Colorado River Shortage Declaration	The Hill	N/A
August 19, 2021	Comments on Tier 1 Colorado River Shortage Declaration	BBC World News TV Live	N/A
August 20, 2021	Comments on Tier 1 Colorado River Shortage Declaration	BBC Radio 5 Live	N/A
September 20, 2021	A tech billionaire wants to build a smart city in the desert. Can it be sustainable? By Adina Solomon	Smart Cities Dive	https://www.smartcitiesdive.com/news/telosa-desert-smart-city-marc-lore/606854/

Section 4 – WRRC Brown Bag Seminars and Co-Sponsored Events

Date	Speaker	Title
January 14, 2021	Patrick Cunningham, Senior Advisor on Water Management Issues, HighGround Public Affairs and Michael J. Pearce, Partner, Gammage & Burnham, PLC	Part 1. Colorado River Water Transfers – Let's Discuss Part 2. Transfer of Water Rights in Arizona
January 20, 2021	Amber Jean McCullum, PhD, Applied Scientist, BAERI/ NASA Ames Research Center and Nikki Tulley, PhD Student, Department of Environmental Science, UArizona	Collaborative Capacity Building and Sovereign Science with NASA and the Navajo Nation
February 3, 2021	Rabi Gyawali, Water Resource Engineer, Arizona Department of Water Resources, Simone Kjolsrud, Technical Administrator, Arizona Water Banking Authority, and Angie Lohse, Senior Policy Analyst, Central Arizona Project	Recovery of Arizona Water Bank Credits to Mitigate Shortages on the Colorado River
February 16, 2021	Jessica Fox, Water Policy Advisor, AMWUA	Reaching Safe-Yield in the Phoenix AMA
March 8, 2021	Susanna Eden, PhD, Research Program Officer, Water Resources Research Center, UArizona, and Brian McGreal, MS Student, Department of Agricultural and Resource Economics, UArizona	Arizona's Groundwater Management: Past, Present, and Future
March 11, 2021	Andrew Kricun, Managing Director, Moonshot Missions; Senior Fellow, US Water Alliance	Community Service and Environmental Justice as an Essential Best Practice for Clean Water Utilities of the Future
March 17, 2021	Multiple, see https://environment.arizona.edu/water-series-2021 for details.	Co-sponsored: Water Solutions for Our Warmer World – Episode 1
March 22, 2021	Multiple, see https://wrrc.arizona.edu/world-water-day-special-webinar for details	Co-sponsored: World Water Day Special Webinar – Managing Aquifer Recharge: A Showcase for Resilience and Sustainably

March 31, 2021	Peter Colohan, Executive Director, Internet of Water, Nicholas Institute for Environmental Policy Solutions, Duke University	The Internet of Water: Partnerships for Progress--Modernizing Water Data to Meet 21st Century Needs
April 8, 2021	Chuck Cullom, Colorado River Programs Manager, Central Arizona Project and Lela Perkins, Senior Water Resources Engineer, Jacobs Engineering Group	Binational Study of Water Desalination Opportunities in the Sea of Cortez
April 14, 2021	John Kmiec, Interim Director, Tucson Water	Update from Tucson Water on Reuse Projects
April 21, 2021	Multiple, see https://environment.arizona.edu/water-series-2021 for details.	Co-sponsored: Water Solutions for Our Warmer World – Episode 2
May 5, 2021	Robyn Grimm, Senior Manager, Water Information Systems, Environmental Defense Fund, Western Water Program	OpenET – Filling One of the Biggest Data Gaps in Water Management
May 19, 2021	Multiple, see https://environment.arizona.edu/water-series-2021 for details.	Co-sponsored: Water Solutions for Our Warmer World – Episode 3
May 24-26, 2021	Multiple, see https://ialc.world/conference/addressing-the-environmental-challenges-of-arid-lands for details.	Co-sponsored: Addressing the Environmental Challenges of Arid Lands; The International Arid Lands Consortium Virtual Conference
June 17, 2021	Laura M. Norman, PhD, Supervisory Research Physical Scientist, US Geological Survey, Western Geographic Science Center	International Watersheds Coping with Climate Hazards; Twin-City Solutions at Ambos Nogales and San Diego–Tijuana
August 13, 2021	Heather Whiteman Runs Him, Director, Tribal Justice Clinic and Professor of Practice, UArizona James E. Rogers College of Law, Margaret Vick, Special Counsel for Water Resources, Colorado River Indian Tribes, and Robyn Interpreter, Founding Partner, Montgomery & Interpreter, PLC	Pre-Conference Webinar - Tribal Water Rights and Settlements
September 14, 2021	Amy Witherall, Binational Program Manager, Lower Colorado Basin Region, Bureau of Reclamation and Sean Schrag-Toso, Binational Program Analyst, Lower Colorado Basin Region, Bureau of Reclamation With Special Comments from US Commissioner Maria-Elena Giner, International Boundary and Water Commission	Binational Cooperation in the Colorado River Basin: United States and Mexico
September 22, 2021	Multiple, see https://environment.arizona.edu/water-series-2021 for details.	Co-sponsored: Water Solutions for Our Warmer World – Episode 4
October 7, 2021	Henry Day, Water Policy and Strategy Consultant, Arizona Public Service Company	APS Sustainable Water Strategies and Practices
October 20, 2021	Multiple, see https://environment.arizona.edu/water-series-2021 for details.	Co-sponsored: Water Solutions for Our Warmer World – Episode 5
October 21, 2021	Mary-Belle Cruz Ayala, Simone Williams, Nikki Tulley, Taylor McHugh, and David Eduardo Morales	Imagine a Day Without Water: Emerging Leaders Panel
October 26, 2021	Richard N. Morrison, Retired Attorney; Co-Founder of the Morrison Institute of Public Policy	The Case for Better Planning
November 10, 2021	Sarah E. Abney, Ph.D. Candidate, Dept. of Environmental Science, W.E.S.T. Center and Ammon F. Cadogan, Water Resources Engineer, Craftwater Engineering	104(b) Grant Program – Student Research Presentations
November 17, 2021	Multiple, see https://environment.arizona.edu/water-series-2021 for details.	Co-sponsored: Water Solutions for Our Warmer World – Episode 6
November 19, 2021	Betsy Wilkening, President, Polar Educators International and Kristen Poppleton, Senior Director of Programs, Climate Generation: A Will Steger Legacy	Making Sense of the COP26 Climate Talks - Reporting Back from the Field
December 6, 2021	Diego Berger, PhD, Coordinator of International Projects, Mekorot	The Evolution of the Water Sector in Israel: The Role of Mekorot, the National Water Company of Israel

Section 5 – WRRC Publications (By First Author)

Dillon, P., Fernández, E., Megdal, S.B., and Massmann, G., Eds. (2021) Managed Aquifer Recharge for Water Resilience, MDPI. ISBN 978-3-03943-042-0 (Hbk); ISBN 978-3-03943-043-7 (PDF) <https://doi.org/10.3390/books978-3-03943-043-7> (registering DOI) This book is a printed edition of the Special Issue Managed Aquifer Recharge for Water Resilience that was published in Water. 408 pp.

Hullinger, A., Eden, S., Seronde, M. (2021). Maricopa County Water Factsheet. <https://wrrc.arizona.edu/arizona-water-factsheets>

Megdal, S.B. (2021) Reflections: Water, Recharge, and Life, WRRC Weekly Wave, Vol 9, Issue 34, November 12, 2021. <https://wrrc.arizona.edu/sites/wrrc.arizona.edu/files/reflections-water-recharge-life.pdf>

Megdal, S.B. (2021) Reflections: On the Meaning of Indigenous Water Resilience, WRRC Weekly Wave, Vol 9, Issue 31, October 22, 2021. <https://wrrc.arizona.edu/reflections-meaning-indigenous-water-resilience>

Petersen-Perlman, J.D., Albrecht, T.R., Tapia-Villaseñor, E.M., Varady, R.G., and Megdal, S.B. (2021) Science and Binational Cooperation: Bidirectionality in the Transboundary Aquifer Assessment Program in the Arizona-Sonora Border Region, Water Vol 13, 2364. 21 pp. <https://doi.org/10.3390/w13172364>

Megdal, S.B. (2021) A Personal Tribute to Rodney Blaine Lewis, WRRC Weekly Wave, Vol 9, Issue 23, August 27, 2021. <https://wrrc.arizona.edu/personal-tribute-rodney-blaine-lewis>

Megdal, S.B. (2021) Reflections: Adapting to a Drier Future, WRRC Weekly Wave, Vol 9, Issue 22, August 20, 2021. <https://wrrc.arizona.edu/reflections-adapting-drier-future>

Megdal, S.B. (2021) Reflections: On the Meaning of Water Resilience, WRRC Summer Wave, Vol 9, Issue 4, July 16, 2021. <https://wrrc.arizona.edu/reflections-meaning-water-resilience>

Megdal, S.B. (2021) Reflections: Returning to the (Virtual) Classroom, WRRC Summer Wave, Vol 9, Issue 2, June 18, 2021. <https://wrrc.arizona.edu/reflections-returning-virtual-classroom>

Megdal, S.B. (2021) Reflections: On April 4, Easter, and the Earthquake, WRRC Weekly Wave, Vol 9, Issue 14 April 9, 2021. <https://wrrc.arizona.edu/reflections-april-4-easter-and-earthquake>. Spanish language version: <https://wrrc.arizona.edu/reflexiones-abril-4-domingo-de-pascua-y-el-terremoto>

Megdal, S.B. and Beutler, L. (2021) Wicked Water Problems Issue, Water Resources IMPACT, A publication of the American Water Resources Association, Guest Editors, Vol 23, No 1, January 2021. 44 pp.

Megdal, S.B. (2021) Take-aways from the 2020 AWRA Annual Conference Panel on Wicked Water Problems, Water Resources IMPACT, A publication of the American Water Resources Association, Vol 23, No 1, January 2021, pp. 7-8.

Megdal, S.B. (2021) Reflections: A Reexamination of Past Water Wishes, WRRC Weekly Wave, Vol 9, Issue 2, January 15, 2021. <https://wrrc.arizona.edu/reflections-reexamination-past-water-wishes>

Megdal, S.B. and Matherne, A-M (2021), Editors, Special Issue “Advances in Transboundary Aquifer Assessment”, Water, 11 papers published through December 31, 2021. In progress. https://www.mdpi.com/journal/water/special_issues/transboundary_aquifer

Shamir, E., Tapia-Villaseñor, E.M., Cruz-Ayala, M-B., Megdal, S.B. (2021) A Review of Climate Change Impacts on the USA-Mexico Transboundary Santa Cruz River Basin, Water Vol 13, 1390. 18 pp. <https://doi.org/10.3390/w13101390>

Seasholes, K. and Megdal, S.B. (2021) The Arizona Water Banking Authority: The Role of Institutions in Supporting Managed Aquifer Recharge, Case Study 21, in Zheng, Y., Ross, A., Villholth, K.G. and Dillon, P. (eds.), 2021. Managing Aquifer Recharge: A Showcase for Resilience and Sustainability. Paris, UNESCO. 6 pp. <https://unesdoc.unesco.org/ark:/48223/pf0000379962>

Sanchez, R., Breña-Naranjo, J.A., Rivera, A., Hanson, R.T., Hernández-Espriú, A., Hogeboom, R.J., Milman, A., Benavides, J.A., Pedrozo-Acuña, A., Soriano-Monzalvo, J.C., Megdal, S.B., and Eckstein, G. (2021) Binational Reflections on Pathways to Groundwater Security in the Mexico-United States Borderlands, Water International, Published online. 25 Nov 2021. 21 pp. <https://www.tandfonline.com/doi/full/10.1080/02508060.2021.1999594>

Tapia-Villaseñor, E.M. and Megdal, S.B. (2021) The U.S.-Mexico Transboundary Aquifer Assessment Program as a Model for Transborder Groundwater Collaboration, Water Vol 13, 530. 21 pp. <https://doi.org/10.3390/w13040530>

Section 6 – WRRC Presentations (By Chronological Order)

December 15, 2021, Sharon B. Megdal, Panel on Changing Climate: Acknowledging the Water Risks, Colorado River Water Users Association Annual Meeting, Las Vegas, Nevada

December 08, 2021, Sharon B. Megdal, Panel IV: Building a pragmatic approach to a TBA (transboundary aquifer) assessment. UNESCO ISARM 2021 Conference, Transboundary Aquifers: Challenges and the Way Forward

December 06, 2021, Sharon B. Megdal, Presentation, Reaching Groundwater Agreements on the Border Between Mexico and the United States: Science and Policy Fundamentals, Presentation made on behalf of coauthor group: Sharon B. Megdal, Stephen Mumme, Roberto Salmón, Rosario Sanchez, Elia M. Tapia-Villaseñor, Mary-Belle Cruz-Ayala, and Oscar Ibañez, UNESCO ISARM 2021 Conference, Transboundary Aquifers: Challenges and the Way Forward.

December 03, 2021, Sharon B. Megdal, Presentation, Working Collaboratively on the Arizona-Sonora Portion of the Transboundary Aquifer Assessment Program AND Discussion of Wicked Water Problems related to Borders, Agribusiness & Water Council of AZ Water Management Certificate Program Cohort IX

December 03, 2021, Sharon B. Megdal, Presentation, Connecting Israeli Water Management to Arizona and our Region, Splendido at Rancho Vistoso

November 16, 2021, Ashley Hullinger, Developing Water Conservation Capacity and Outreach Materials with Local Governments in Rural Arizona, Arizona Water Protection Fund.

November 16, 2021, Sharon B. Megdal, Presentation, Tribal Water Dialogues in Arizona and the Colorado River Basin: Listen, Learn, and Listen, UC Riverside, School of Public Policy, Water Seminar Series

November 10, 2021, Sharon B. Megdal, Moderator and Panelist, Women Leaders Panel, Inaugural Meeting of the Arizona Association of Women in Water and Agriculture, Chandler, Arizona,

November 08, 2021, Simone Williams, Susanna Eden, Sharon B. Megdal, Student Lead-authored Presentation, Recognizing and Addressing Diversity, Equity and Inclusion in Water Resource Dialogues, American Water Resources Association 2021 Annual Conference

November 08, 2021, Sharon B. Megdal, Presentation, Science Diplomacy and Dialogue to Address Wicked Water Problems, American Water Resources Association 2021 Annual Conference

November 03, 2021, Sharon B. Megdal, Panelist, Building local water resilience and preserving local river flows in the face of drought and low Colorado River flow conditions, Santa Cruz Watershed Collaborative Forum

October 20, 2021, Sharon B. Megdal, Presentation (recorded), Tackling Wicked Water Problems in the Transboundary Colorado River Basin, originally recorded for the Third International Congress on Desert Economy: Energy Economics (Dahkla Conference), October 20, 2021, which has been postponed until 2022.

October 05, 2021, Sharon B. Megdal, Brief Overview, Diversifying Voices in Water Resources (DVIWR) 104b project, Virtual Fall Meeting of the National Institutes for Water Resources.

October 01, 2021, Sharon B. Megdal, Panelist, The Colorado River and the New Normal Water Conditions: What about Mexico? Coffee Break of the Permanent Forum of Binational Waters.

September 30, 2021, Sharon B. Megdal, Presentation, Water resilience challenges for groundwater dependent communities along the United States-Mexico Border, Symposium on Resilience Research for Global Development Challenges, University of Arizona, Tucson, AZ.

September 30, 2021, Sharon B. Megdal, Roundtable panelist, Two Nations, One Water Conference, New Mexico Water Resources Research Institute.

September 28, 2021, Sharon B. Megdal, Presentation, Adapting to a drier future for Tucson, Arizona, and the Western US, District 9 Meeting, Tucson (Zoom).

September 22, 2021, Sharon B. Megdal, Panel Moderator-Convenor, Water Solutions for Our Warmer World Episode 4: Drought in the Colorado River Basin.

September 21, 2021, Sharon B. Megdal, Speaker, Water Policy & Management for Water-scarce Regions: The Colorado River Basin Case Study, 6th Annual Sustainability Conference, Oka' – The Water Institute at East Central University.

September 11, 2021, Sharon B. Megdal, Presentation, Adapting to a drier future for Arizona and the Western US, Green Valley Democratic Club.

September 10, 2021, Sharon B. Megdal, Presentation, Water Issues faced by Arizona and the Central Arizona Project, Tierra Antigua Realty.

September 09, 2021, Sharon B. Megdal, Presentation, Water Issues faced by Arizona and the Region, Green Valley Community Talk, Green Valley, AZ.

July 21, 2021, Sharon B. Megdal, Moderator and Lightning Talk Presenter, Session 20, Climate Change Adaptation & Water Supply Planning, Presentation title – The Arizona-Sonora Portion of the Transboundary Aquifer Assessment Program: Groundwater and changing climate, American Water Resources Association Summer Specialty Conference, Connecting Land and Water for Healthy Communities.

July 20, 2021, Sharon B. Megdal, Presentation, Current Understanding – The Need for Groundwater Governance, ACWADAM International Workshop Series 2021, Reimagining Groundwater Governance with special emphasis on India.

July 12, 2021, Sharon B. Megdal, Presentation, Wicked Water Problems of the Colorado River Basin – With Special Consideration of the Role of Native Nations, REU Program, Tucson, AZ.

July 10, 2021, Sharon B. Megdal, Presentation, An Overview of the Water Sector and its Vast Opportunities, Civic and Political Leadership Academy, Greater Tucson Leadership, Tucson, AZ.

June 24, 2021, Sharon B. Megdal, Comments to CAP's CAGR and Underground Storage Committee, Discussion and Stakeholder Perspectives on the GWAICC Post2025AMA Committee Issue: CAGR Replenishment and Water Supplies.

June 17, 2021, Sharon B. Megdal, Presentation and panelist, Colorado River Basin Case Study: A Basin at the Tipping Point, Program on "Tipping Points: Desertification, Drought and Climate Justice", held on the World Day to Combat Desertification and Drought. <https://www.youtube.com/watch?v=Xa6k6XyyXbg>

June 15, 2021, Sharon B. Megdal, Presentation, Arizona Water Issues, Arizona Cooperative Extension Agriculture and Natural Resources Strategic Planning Retreat, (In person) Phoenix, AZ.

June 10, 2021, Sharon B. Megdal, Presentation, Working Collaboratively on the Arizona-Sonora Portion of the Transboundary Aquifer Assessment Program, Southeast Citizens Forum, International Boundary and Water Commission.

May 30, 2021, Sharon B. Megdal, Guest lecture, The Role of Science Diplomacy in Addressing Wicked Water Problems: Examples from the Colorado River Basin and Middle East, Guest lecture for Fall 2021 Hybrid Course, ENGR 495A/595A, Science, Health & Engineering Policy and Diplomacy.

May 27, 2021, Sharon B. Megdal, Speaker (Expert Peer Reviewer) and Participant, Workshop of the OECD (Organisation for Economic Co-operation and Development) and ANA (Brazilian National Water Agency) on Strengthening river basin governance in the Piancó-Piranhas Açú River Basin, May 25-28, 2021. Featured presenter and discussant, Colorado River Basin Case Study.

May 21, 2021, Sharon B. Megdal, Presentation, Water Supply Prospects and Challenges for Arizona and the Region, 30th Annual Desert Horticulture Conference, University of Arizona.

May 20, 2021, Sharon B. Megdal, Comments to CAP's CAGR and Underground Storage Committee, Discussion and Stakeholder Perspectives on the GWAICC Post2025AMA Committee Issue: Groundwater in the Assured Water Supply Program.

May 20, 2021, Sharon B. Megdal, Keynote, Preparing for the unpredictable: Discover, Develop, Deploy, and DIALOGUE, French-American Innovation Days, iGlobes-University of Arizona & the office for Science and Technology of the Embassy of France. <https://www.youtube.com/watch?v=nSFGb7rf7CA>

May 20, 2021, Sharon B. Megdal, Video remarks, Testimonial remarks from 44 world water leaders on the occasion of the Farewell Event for OECD Secretary-General Angel Gurría to celebrate 15 years of Water at OECD. https://www.youtube.com/watch?v=x_joG7ob5Rg

April 22, 2021, Ashley Hullinger, Transforming Needs into Assets, Gila County Cooperative Extension Webinar

April 22, 2021, Ashley Hullinger, Presentation, Transforming Needs into Assets, Establishing a Watershed Partnership to Address Environmental and Economic Challenges. Association of Natural Resource Extension Professionals 2021 Conference.

April 21, 2021, Sharon B. Megdal, Presentation, Climate Change and Water: The Complex Case of the Colorado River Basin, Women of Reform Judaism Pacific District Program on Climate Change.

April 20, 2021, Sharon B. Megdal, Respondent panelist, Three-hour Preparatory Meeting to Workshop #3, Strengthening river basin governance in the Piancó-Piranhas-Açu Basin River Basin, sponsored by OECD and ANA (Brazil).

April 19, 2021, Ashley Hullinger, WRRRC Programming Presentation, Seminar organized by Greg Garfin.

April 15, 2021, Sharon B. Megdal, Panel Moderator and Organizer, Wicked water problems of the Navajo Nation and efforts to address them, 2021 Joint American Water Resources Association and National Capital Section Annual Water Symposium.

April 14, 2021, Sharon B. Megdal, Presentation, Tackling Wicked Water Problems in the Transboundary Colorado River Basin, IHE-Delft Water and Peace Annual Three-part Seminar on Water cooperation, data and policy making.

March 30, 2021, Sharon B. Megdal, Speaker, Career Twists and Turns: Not knowing your way is Ok!, American Water Resources Association Young Professional Workshop Series, Session 1.

March 25, 2021, Sharon B. Megdal, Panelist, Roundtable, Educational Platform for Water Sustainability: Local to Global Implementation, IWSS 2021 International Symposium celebrating World Water Day on Water Sustainability: Challenges, Technologies & Opportunities, Amrita Vishwa Vidyapeetham University (India) School for Sustainable Development.

March 24, 2021, Sharon B. Megdal, Roundtable Leader/Facilitator, Addressing Wicked Water Problems, Universities Council on Water Resources (UCOWR).

March 24, 2021, Sharon B. Megdal, Keynote Address, Addressing wicked water problems associated with a changing climate, IWSS 2021 International Symposium celebrating World Water Day on Water Sustainability: Challenges, Technologies & Opportunities, Amrita Vishwa Vidyapeetham University (India) School for Sustainable Development.

March 22, 2021, Sharon B. Megdal, Presentation, Wicked Water Problems of Arizona and Our Region, League of Women Voters of Northern Arizona.

March 17, 2021, Sharon B. Megdal, Panelist, Water Solutions for Our Warmer World, Episode 1: Perspectives on Regional Water Sustainability, the Arizona Institutes for Resilience (AIR), the Udall Center for Studies in Public Policy, and the Water Resources Research Center.

March 15, 2021, Sharon B. Megdal, Class Guest Lecture, Law 656W, Tribal Water Law, The University of Arizona.

March 2, 2021, Ashley Hullinger, Presentation/Facilitator, Community Water Dataset Focus Results.

February 17, 2021, Sharon B. Megdal, Panelist, Honors College Big Ideas, Grand Challenges Series: Sustainability. <https://honors.arizona.edu/big-ideas-grand-challenges-sustainability>

February 15, 2021, Sharon B. Megdal, Presentation, The Connectedness of the Groundwater Management Act, the CAP, the Assured Water Supply Program, and the Central Arizona Groundwater Replenishment District, Saddlebrooke Nature Club.

February 12, 2021, Ashley Hullinger, Presentation, Engaging Communities in Rural Arizona For Resilient Water Solutions, ENVS 596B.

February 10, 2021, Sharon B. Megdal, Panelist, Diversity, Equity, Inclusion and Justice, Annual Meeting of the National Institutes for Water Resources.

February 4, 2021 Ashley Hullinger, Presentation/Facilitator, Community Water Dataset Focus Group 3.

February 1, 2021, Ashley Hullinger, Presentation/Facilitator, Community Water Dataset Focus Group 2.

January 28, 2021, Ashley Hullinger, Presentation/Facilitator, Community Water Dataset Focus Group 1.

Section 7 – Arizona Project WET Presentations and Festivals

Date	Title	Presenter/Contact	Location / School	Attendance (if available)
1/6/21	Forests, Fires, and Floods	APW Water Educator Team	Gallego Primary Fine Arts Magnet School 6200 S Hemisphere Pl, Tucson, Az, 85706	26
1/8/21	Plant Superheros Post Lesson	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	23
1/11/21	Water Scene Investigation	APW Water Educator Team	Amphi Online Academy 701 W Wetmore Rd, Tucson, Az 85705	74
1/12/21	Forests, Fires, and Floods	APW Water Educator Team	Gallego Primary Fine Arts Magnet School 6200 S Hemisphere Pl, Tucson, Az, 85706	22
1/12/21	Sweetwater Wetlands	APW Water Educator Team	Drexel Elementary School 801 E Drexel Rd, Tucson, Az, 85706	31

1/12/21	Sweetwater Wetlands	APW Water Educator Team	Drexel Elementary School 801 E Drexel Rd, Tucson, Az, 85706	21
1/12/21	Water Scene Investigation	APW Water Educator Team	Teenage Parent High School 102 N Plumer Av, Tucson, Az, 85719	8
1/14/21	Sweetwater Wetlands	APW Water Educator Team	Flowing Wells Junior High School 4545 N La Cholla Bl, Tucson, Az, 85705	76
1/14/21	Sweetwater Wetlands	APW Water Educator Team	Flowing Wells Junior High School 4545 N La Cholla Bl, Tucson, Az, 85705	75
1/14/21	Sweetwater Wetlands	APW Water Educator Team	Flowing Wells Junior High School 4545 N La Cholla Bl, Tucson, Az, 85705	68
1/14/21	Sweetwater Wetlands	APW Water Educator Team	Flowing Wells Junior High School 4545 N La Cholla Bl, Tucson, Az, 85705	67
1/19/21	Water Scene Investigation	APW Water Educator Team	Amphi Online Academy 701 W Wetmore Rd, Tucson, Az 85705	74
1/20/21	Sweetwater Wetlands	APW Water Educator Team	Santa Clara Elementary School 6910 S Santa Clara Av, Tucson, Az, 85756	21
1/20/21	Sweetwater Wetlands	APW Water Educator Team	Santa Clara Elementary School 6910 S Santa Clara Av, Tucson, Az, 85756	20
1/20/21	Rio de Flag Watershed Pre Lesson	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	23
1/21/21	Groundwater Flow Model	APW Water Educator Team	Borton Magnet Elementary School 700 E 22nd St, Tucson, Az, 85713	53
1/22/21	Forests, Fires, and Floods	APW Water Educator Team	Gallego Intermediate Fine Arts Magnet School 3700 E Alvord Rd, Tucson, Az, 85706	17
1/26/21	Sweetwater Wetlands	APW Water Educator Team	Coyote Trail Elementary School 8000 N Silverbell Rd, Tucson, Az, 85743	21
1/28/21	Forests, Fires, and Floods	APW Water Educator Team	Homer Davis Elementary School 4250 N Romero Rd, Tucson, Az, 85705	14
1/28/21	Forests, Fires, and Floods	APW Water Educator Team	Homer Davis Elementary School 4250 N Romero Rd, Tucson, Az, 85705	13
1/28/21	Forests, Fires, and Floods	APW Water Educator Team	Homer Davis Elementary School 4250 N Romero Rd, Tucson, Az, 85705	8
2/1/21	Groundwater Flow Model	APW Water Educator Team	Gallego Primary Fine Arts Magnet School 6200 S Hemisphere Pl, Tucson, Az, 85706	30
2/1/21	Groundwater Flow Model	APW Water Educator Team	Gallego Primary Fine Arts Magnet School 6200 S Hemisphere Pl, Tucson, Az, 85706	23
2/1/21	Sweetwater Wetlands	APW Water Educator Team	Tucson International Academy-Midvale 1625 W Valencia Rd, Tucson, Az, 85746	8
2/3/21	Sweetwater Wetlands	APW Water Educator Team	Nash Elementary School 515 W Kelso St, Tucson, Az, 85705	16
2/3/21	Peoria Celebration of Learning (Day 1)	Julie Hasty	Online	554
2/4/21	Groundwater Flow Model	APW Water Educator Team	Harelson Elementary School 826 W Chapala Dr, Tucson, Az, 85704	21
2/4/21	Groundwater Flow Model	APW Water Educator Team	Harelson Elementary School 826 W Chapala Dr, Tucson, Az, 85704	21

2/4/21	Water Scene Investigation	APW Water Educator Team	Teenage Parent High School 102 N Plumer Av, Tucson, Az, 85719	8
2/5/21	Groundwater Flow Model	APW Water Educator Team	Gallego Primary Fine Arts Magnet School 6200 S Hemisphere Pl, Tucson, Az, 85706	23
2/5/21	Plant Superheroes	APW Water Educator Team	Butterfield Elementary School 3400 W Massingale Rd, Tucson, Az, 85741	46
2/5/21	A Walk In the Watershed (Rio de Flag)	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
2/7/21	Groundwater Flow Model	APW Water Educator Team	J Robert Hendricks Elementary School 3400 W Orange Grove Rd, Tucson, Az, 85741	76
2/8/21	Groundwater Flow Model	APW Water Educator Team	Tucson International Academy-Broadway 1230 E Broadway Bl, Tucson, Az, 85719	12
2/9/21	Groundwater Flow Model	APW Water Educator Team	Gallego Intermediate Fine Arts Magnet School 3700 E Alvord Rd, Tucson, Az, 85706	27
2/9/21	Groundwater Flow Model	APW Water Educator Team	Gallego Primary Fine Arts Magnet School 6200 S Hemisphere Pl, Tucson, Az, 85706	16
2/9/21	Sweetwater Wetlands	APW Water Educator Team	Tucson International Academy-East 450 N Pantano Rd, Tucson, Az, 85710	11
2/10/21	Forests, Fires, and Floods	APW Water Educator Team	Walter Douglas Elementary School 3302 N Flowing Wells Rd, Tucson, Az, 85705	20
2/10/21	Forests, Fires, and Floods	APW Water Educator Team	Walter Douglas Elementary School 3302 N Flowing Wells Rd, Tucson, Az, 85705	13
2/10/21	Forests, Fires, and Floods	APW Water Educator Team	Walter Douglas Elementary School 3302 N Flowing Wells Rd, Tucson, Az, 85705	15
2/10/21	Forests, Fires, and Floods	APW Water Educator Team	Walter Douglas Elementary School 3302 N Flowing Wells Rd, Tucson, Az, 85705	26
2/10/21	Groundwater Flow Model	APW Water Educator Team	Nash Elementary School 515 W Kelso St, Tucson, Az, 85705	11
2/10/21	Peoria Celebration of Learning (Day 2)	Julie Hasty	Online	650
2/11/21	Groundwater Flow Model	APW Water Educator Team	International School Of Tucson 1701 E Seneca St, Tucson, Az, 85719	14
2/11/21	Plant Superheroes	APW Water Educator Team	Paulo Freire Freedom School 300 E University Bl, Tucson, Az, 85705	64
2/11/21	Water Scene Investigation	APW Water Educator Team	Harelson Elementary School 826 W Chapala Dr, Tucson, Az, 85704	26
2/12/21	Groundwater Flow Model	APW Water Educator Team	Sierra 2-8 School 5801 S Del Moral Bl, Tucson, Az, 85706	33
2/12/21	A Walk in the Watershed (Rio de Flag)	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
2/15/21	Groundwater Flow Model	APW Water Educator Team	Gallego Primary Fine Arts Magnet School 6200 S Hemisphere Pl, Tucson, Az, 85706	24
2/15/21	Water Scene Investigation	APW Water Educator Team	Tucson International Academy-West 2700 W Broadway Bl, Tucson, Az, 85745	21

2/16/21	Forests, Fires, and Floods	APW Water Educator Team	Tucson International Academy- Broadway 1230 E Broadway Bl, Tucson, Az, 85719	7
2/16/21	Sweetwater Wetlands	APW Water Educator Team	Gallego Primary Fine Arts Magnet School 6200 S Hemisphere Pl, Tucson, Az, 85706	14
2/16/21	Litchfield Celebration of Learning	Julie Hasty	Online	510
2/17/21	Sweetwater Wetlands	APW Water Educator Team	Walker Elementary School 1750 W Roller Coaster Rd, Tucson, Az, 85704	42
2/17/21	Rio De Flag Watershed Video	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	567
2/17/21	Water Scene Investigation Pt. 1	Pam Justice	Rio Vista Elementary	31
2/18/21	Forests, Fires, and Floods	APW Water Educator Team	Centennial Elementary School 2200 W Wetmore Rd, Tucson, Az, 85705	74
2/18/21	Forests, Fires, and Floods	APW Water Educator Team	Centennial Elementary School 2200 W Wetmore Rd, Tucson, Az, 85705	11
2/18/21	Forests, Fires, and Floods	APW Water Educator Team	Centennial Elementary School 2200 W Wetmore Rd, Tucson, Az, 85705	32
2/18/21	Water Scene Investigation	APW Water Educator Team	Harelson Elementary School 826 W Chapala Dr, Tucson, Az, 85704	26
2/18/21	Flagstaff Celebration of Learning	Julie Hasty	Online	568
2/19/21	Forests, Fires, and Floods	APW Water Educator Team	Centennial Elementary School 2200 W Wetmore Rd, Tucson, Az, 85705	42
2/19/21	Forests, Fires, and Floods	APW Water Educator Team	Homer Davis Elementary School 4250 N Romero Rd, Tucson, Az, 85705	11
2/19/21	Forests, Fires, and Floods	APW Water Educator Team	Walter Douglas Elementary School 3302 N Flowing Wells Rd, Tucson, Az, 85705	12
2/19/21	Forests, Fires, and Floods	APW Water Educator Team	Laguna Elementary School 5001 N Shannon Rd, Tucson, Az, 85705	12
2/19/21	Water Scene Investigation	APW Water Educator Team	Borton Magnet Elementary School 700 E 22nd St, Tucson, Az, 85713	21
2/19/21	Plant Superheroes	Lorie Cavalli	Thomas Elementary School, 3300 E Lockett Rd, Flagstaff, AZ 86004	23
2/23/21	Sweetwater Wetlands	APW Water Educator Team	Borton Magnet Elementary School 700 E 22nd St, Tucson, Az, 85713	22
2/23/21	Verde Valley Celebration of Learning	Julie Hasty	Online	159
2/24/21	Groundwater Flow Model	APW Water Educator Team	Borton Magnet Elementary School 700 E 22nd St, Tucson, Az, 85713	53
2/24/21	Groundwater Flow Model	APW Water Educator Team	Walker Elementary School 1750 W Roller Coaster Rd, Tucson, Az, 85704	12
2/24/21	Sweetwater Wetlands	APW Water Educator Team	Santa Clara Elementary School 6910 S Santa Clara Av, Tucson, Az, 85756	19
2/24/21	Water Scene Investigation	APW Water Educator Team	Borton Magnet Elementary School 700 E 22nd St, Tucson, Az, 85713	21
2/24/21	Water Scene Investigation Pt. 2	Pam Justice	Rio Vista Elementary	31

3/1/21	Groundwater Flow Model	APW Water Educator Team	Calvary Chapel Christian School 8725 E Speedway Bl, Tucson, Az, 85710	22
3/1/21	Water Scene Investigation	APW Water Educator Team	Tucson International Academy-Midvale 1625 W Valencia Rd, Tucson, Az, 85746	21
3/1/21	Plant Superheroes	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	22
3/2/21	Plant Superheroes	APW Water Educator Team	Tucson International Academy-East 450 N Pantano Rd, Tucson, Az, 85710	9
3/2/21	Sweetwater Wetlands	APW Water Educator Team	Santa Cruz Catholic School 29 W 22nd St, Tucson, Az, 85713	16
3/2/21	Littleton Celebration of Learning	Julie Hasty	Online	771
3/3/21	Sweetwater Wetlands	APW Water Educator Team	J Robert Hendricks Elementary School 3400 W Orange Grove Rd, Tucson, Az, 85741	78
3/3/21	Sweetwater Wetlands	APW Water Educator Team	Nash Elementary School 515 W Kelso St, Tucson, Az, 85705	19
3/3/21	Gilbert Celebration of Learning (Day 1)	Julie Hasty	Online	500
3/4/21	Gilbert Celebration of Learning (Day 2)	Julie Hasty	Online	526
3/5/21	Maricopa Celebration of Learning	Miriam Aleman	Online	318
3/5/21	Riparian Field Day	Cheyenne ES	Maxwell	52
3/7/21	Forests, Fires, and Floods	APW Water Educator Team	Centennial Elementary School 2200 W Wetmore Rd, Tucson, Az, 85705	16
3/7/21	Groundwater Flow Model	APW Water Educator Team	Walker Elementary School 1750 W Roller Coaster Rd, Tucson, Az, 85704	42
3/8/21	Hands on Groundwater	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	22
3/9/21	Plant Superheroes	APW Water Educator Team	Santa Cruz Catholic School 29 W 22nd St, Tucson, Az, 85713	24
3/9/21	Where Does our Water Come From	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
3/9/21	Water Scene Investigation Pt. 1	Pam Justice	Knox Elementary	25
3/9/21	Water Scene Investigation Pt. 1	Pam Justice	Knox Elementary	25
3/9/21	Water Scene Investigation Pt. 1	Pam Justice	Knox Elementary	25
3/11/21	Groundwater Flow Model	APW Water Educator Team	Nash Elementary School 515 W Kelso St, Tucson, Az, 85705	23
3/11/21	Groundwater Flow Model	APW Water Educator Team	Nash Elementary School 515 W Kelso St, Tucson, Az, 85705	23
3/15/21	Sweetwater Wetlands	APW Water Educator Team	Calvary Chapel Christian School 8725 E Speedway Bl, Tucson, Az, 85710	22
3/16/21	Roosevelt Celebration of Learning	Julie Hasty	Online	300
3/18/21	Tempe Celebration of Learning	Julie Hasty	Online	159
3/25/21	Tucson/Amphi Celebration of Learning	Pearl Lam	Online	567
3/25/21	Forest & Watershed Health	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	22

3/26/21	Sweetwater Wetlands	APW Water Educator Team	Harelson Elementary School 826 W Chapala Dr, Tucson, Az, 85704	28
3/26/21	Forest & Watershed Health	Lorie Cavalli	Sechrist Elementary School, 2230 N Fort Valley Rd, Flagstaff, AZ 86001	23
3/26/21	Groundwater_Surface Water Connection	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
3/30/21	Water Scene Investigatrion Pt. 2	Pam Justice	Knox Elementary	25
3/30/21	Water Scene Investigatrion Pt. 2	Pam Justice	Knox Elementary	25
3/30/21	Water Scene Investigatrion Pt. 2	Pam Justice	Knox Elementary	25
4/2/21	Plant Superheroes	APW Water Educator Team	Harelson Elementary School 826 W Chapala Dr, Tucson, Az, 85704	27
4/5/21	Water Scene Investigation Pt. 1	Lorie Cavalli	Flagstaff High School, 400 W Elm Ave, Flagstaff, AZ 86001	41
4/6/21	Groundwater Flow Model	APW Water Educator Team	Tucson Country Day School 9239 E Wrightstown Rd, Tucson, Az, 85715	25
4/7/21	Groundwater Flow Model	APW Water Educator Team	Tucson Country Day School 9239 E Wrightstown Rd, Tucson, Az, 85715	40
4/9/21	Osborn Celebration of Learning	Julie Hasty	Online	421
4/9/21	Forest & Watershed health	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
4/12/21	Water Scene Investigation Pt. 2	Lorie Cavalli	Flagstaff High School, 400 W Elm Ave, Flagstaff, AZ 86001	41
4/16/21	Groundwater_Surface Water Connection	Lorie Cavalli	Sechrist Elementary School, 2230 N Fort Valley Rd, Flagstaff, AZ 86001	23
4/16/21	Forest & Watershed Health	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
4/20/21	Florence Celebration of Learning	Miriam Aleman	Online	404
4/21/21	Forest Investigators	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
4/26/21	Plant Superheroes	Lorie Cavalli	Killip Elementary School, 2300 E 6th Ave, Flagstaff, AZ 86004	26
4/27/21	Groundwater_Surface Water Connection	Lorie Cavalli	Killip Elementary School, 2300 E 6th Ave, Flagstaff, AZ 86004	26
4/29/21	Southern Gila Celebration of Learning	Julie Hasty	Online	115
4/30/21	Forest & Watershed Health	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
5/4/21	Buckeye Celebration of Learning	Julie Hasty	Online	135
5/5/21	Chandler Celebration of Learning	Julie Hasty	Online	604
5/6/21	Casa Grande/Apache Junction Celebration of Learning	Miriam Aleman	Online	777
5/7/21	Plant Superheroes Engineering Design Challenge	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
5/11/21	Forest, Fire and Floods-Adaptations	Lorie Cavalli	Killip Elementary School, 2300 E 6th Ave, Flagstaff, AZ 86004	26
5/12/21	Nogales Celebration of Learning	Julie Hasty	Online	152

5/13/21	Plant Superheroes Rain Basin Pre-Lesson	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
5/14/21	Lake Havasu Celebration of Learning	Julie Hasty	Online	328
5/17/21	Creighton Celebration of Learning	Julie Hasty	Online	86
5/18/21	Forest, Fire and Floods-Flood with Models	Lorie Cavalli	Killip Elementary School, 2300 E 6th Ave, Flagstaff, AZ 86004	26
5/25/21	Riparian Field Day	Fountain Hills MS	Fountain Hills	67
6/1/21	Water Conservation in the Garden-Plant Superheroes Rain Basin	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	24
6/14/21	Riparian Romp	Lorie Cavalli	Museum of Northern Arizona, 3101 N Fort Valley Rd, Flagstaff, AZ 86001	22
6/21/21	Forest Investigators	Lorie Cavalli	Museum of Northern Arizona, 3101 N Fort Valley Rd, Flagstaff, AZ 86001	23
7/21/21	Watersheds & Groundwater	Lorie Cavalli	Arboretum at Flagstaff, 4001 S Woody Mountain Rd, Flagstaff, AZ 86001	42
7/26/21	Riparian Romp	Museum of Northern Arizona	Museum of Northern Arizona, 3101 N Fort Valley Rd, Flagstaff, AZ 86001	19
7/26/21	Forest Investigators	Museum of Northern Arizona	Museum of Northern Arizona, 3101 N Fort Valley Rd, Flagstaff, AZ 86001	19
8/24/21	Watershed Health	APW Water Educator Team	Killip Elementary School, 2300 E 6th Ave, Flagstaff, AZ 86004	202
9/10/21	Groundwater Presentation	Sandra Hurlbut	Winter Well ES	87
9/14/21	Groundwater Presentation	Sandra Hurlbut	Fountain Hills MS	93
9/20/21	N. Peoria Student Volunteer Training	Kirstyn Kay	Central High School, 4525 N Central Ave, Phoenix, AZ 85012	20
9/22/21	Groundwater Flow Model	APW Water Educator Team	Amphi Online Academy I 701 W Wetmore Rd, Tucson, Az 85705	31
9/22/21	Groundwater Flow Model	APW Water Educator Team	Amphitheater Middle School I 315 E Prince Rd, Tucson, Az, 85705	18
9/22/21	Flagstaff Volunteer Training - NAU students	Holly Thomas-Hilburn	Northern Arizona Univeristy, S San Francisco St, Flagstaff, AZ 86011	68
9/23/21	N. Peoria Volunteer Training	Kirstyn Kay	Peoria Public Safety Administration Building, 8351 W Cinnabar Ave, Peoria, AZ 85345	18
9/24/21	Groundwater using Sand Tank	Lorie Cavalli	Sinaugua Middle School, 3950 E Butler Ave, Flagstaff, AZ 86004	57
9/29/21	Sweetwater Wetlands	APW Water Educator Team	Amphi Online Academy I 701 W Wetmore Rd, Tucson, Az 85705	31
9/29/21	Sweetwater Wetlands	APW Water Educator Team	Amphitheater Middle School I 315 E Prince Rd, Tucson, Az, 85705	18
9/29/21	Flagstaff Water Festival	Kirstyn Kay	Flagstaff	459
9/29/21	Plant Superheroes (In-Person)	Lorie Cavalli	Sechrist Elementary School, 2230 N Fort Valley Rd, Flagstaff, AZ 86001	105
9/30/21	Water Scene Investigation	APW Water Educator Team	Butterfield Elementary School I 3400 W Massingale Rd, Tucson, Az, 85741	23
9/30/21	Water Scene Investigation	APW Water Educator Team	Butterfield Elementary School I 3400 W Massingale Rd, Tucson, Az, 85741	63

9/30/21	Forest & Watershed Health	Lorie Cavalli	De Miguel Elementary School, 3500 S Gillenwater Dr, Flagstaff, AZ 86001	22
9/30/21	Forest & Watershed Health	Lorie Cavalli	Marshall Elementary School, 850 N Bonito St, Flagstaff, AZ 86001	24
10/4/21	Chandler Water Festival (Day 1)	Kirstyn Kay	Chandler	143
10/4/21	Plant Superheroes	Lorie Cavalli	Cromer Elementary School, 7150 Silver Saddle Rd, Flagstaff, AZ 86004	24
10/5/21	Marana Water Festival	Kirstyn Kay	Marana	1070
10/5/21	Chandler Water Festival (Day 2)	Kirstyn Kay	Chandler	987
10/6/21	Forest & Watershed Health	Lorie Cavalli	Sechrist Elementary School, 2230 N Fort Valley Rd, Flagstaff, AZ 86001	73
10/7/21	North Peoria Water Festival	Kirstyn Kay	North Peoria	472
10/7/21	Forest & Watershed Health	Lorie Cavalli	Marshall Elementary School, 850 N Bonito St, Flagstaff, AZ 86001	45
10/10/21	Forest & Watershed Health	Lorie Cavalli	Thomas Elementary School, 3300 E Lockett Rd, Flagstaff, AZ 86004	76
10/12/21	Forest & Watershed Health	Lorie Cavalli	Sechrist Elementary School, 2230 N Fort Valley Rd, Flagstaff, AZ 86001	21
10/19/21	Groundwater Flow Model	APW Water Educator Team	Pueblo Gardens K-8 School 2210 E 33rd St, Tucson, Az, 85713	34
10/19/21	Groundwater Flow Model	APW Water Educator Team	Pueblo Gardens K-8 School 2210 E 33rd St, Tucson, Az, 85713	37
10/20/21	Groundwater Flow Model	APW Water Educator Team	Butterfield Elementary School 3400 W Massingale Rd, Tucson, Az, 85741	23
10/20/21	Groundwater Flow Model	APW Water Educator Team	Butterfield Elementary School 3400 W Massingale Rd, Tucson, Az, 85741	63
10/21/21	Water Scene Investigation	APW Water Educator Team	Changemaker High School 1300 S Belvedere Av, Tucson, Az, 85711	16
10/21/21	Water Scene Investigation	APW Water Educator Team	Changemaker High School 1300 S Belvedere Av, Tucson, Az, 85711	17
10/21/21	Verde Valley Water Festival	Kirstyn Kay	Verde Valley	293
10/21/21	Forest & Watershed Health	Lorie Cavalli	REAL Homeschool, Flagstaff, AZ	18
10/22/21	Forests, Fires, and Floods	APW Water Educator Team	Whitmore Elementary School 5330 E Glenn St, Tucson, Az, 85712	32
10/22/21	LWWF	APW Water Educator Team	Whitmore Elementary School 5330 E Glenn St, Tucson, Az, 85712	32
10/22/21	Riparian Field Day	HRP	Fountain Hills	87
10/25/21	Water Scene Investigation	APW Water Educator Team	Changemaker High School 1300 S Belvedere Av, Tucson, Az, 85711	17
10/26/21	Sweetwater Wetlands	APW Water Educator Team	Pueblo Gardens K-8 School 2210 E 33rd St, Tucson, Az, 85713	35
10/26/21	Sweetwater Wetlands	APW Water Educator Team	Pueblo Gardens K-8 School 2210 E 33rd St, Tucson, Az, 85713	37
10/26/21	Groundwater Presentation	Mountain View	Waddell	128
10/27/21	Sweetwater Wetlands	APW Water Educator Team	Butterfield Elementary School 3400 W Massingale Rd, Tucson, Az, 85741	23
10/27/21	Sweetwater Wetlands	APW Water Educator Team	Butterfield Elementary School 3400 W Massingale Rd, Tucson, Az, 85741	63
10/27/21	Groundwater Presentation	Countryside	Surprise	143

10/28/21	Groundwater Flow Model	APW Water Educator Team	Summit View Elementary School 1900 E Summit St, Tucson, Az, 85756	30
10/28/21	Chandler Student Volunteer Training	Kirstyn Kay	Hamilton High School, 3700 S Arizona Ave, Chandler, AZ 85248	3
10/28/21	Groundwater Presentation	El Mirage ES	El Mirage	78
10/29/21	Groundwater Presentation	El Mirage ES	El Mirage	78
11/1/21	Chandler Volunteer Training	Kirstyn Kay	Chandler Community Center, 125 E Commonwealth Ave, Chandler, AZ 85225	16
11/1/21	Water Scene Investigation Pt. 1	Pam Justice	Wigwam Creek MS	31
11/1/21	Water Scene Investigation Pt. 1	Pam Justice	Wigwam Creek MS	30
11/1/21	Water Scene Investigation Pt. 1	Pam Justice	Wigwam Creek MS	32
11/1/21	Water Scene Investigation Pt. 1	Pam Justice	Wigwam Creek MS	29
11/2/21	Groundwater Flow Model	APW Water Educator Team	Las Puertas Community School 100 W 37th St, Tucson, Az, 85713	62
11/2/21	Chandler Student Volunteer Training	Kirstyn Kay	Casteel High School, 24901 S Power Rd, Queen Creek, AZ 85142	29
11/2/21	Water Scene Investigation Pt. 1	Pam Justice	Wigwam Creek MS	29
11/2/21	Water Scene Investigation Pt. 1	Pam Justice	Wigwam Creek MS	28
11/2/21	Water Scene Investigation Pt. 1	Pam Justice	Wigwam Creek MS	30
11/2/21	Water Scene Investigation Pt. 1	Pam Justice	Wigwam Creek MS	26
11/2/21	Groundwater Presentation	Western Peaks ES	Surprise	130
11/3/21	Water Scene Investigation	APW Water Educator Team	Amphi Online Academy 701 W Wetmore Rd, Tucson, Az 85705	74
11/3/21	Water Scene Investigation	APW Water Educator Team	Paulo Freire Freedom School- Downtown 47 E Pennington St, Tucson, Az, 85701	22
11/8/21	Water Scene Investigation Pt. 2	Pam Justice	Wigwam Creek MS	31
11/8/21	Water Scene Investigation Pt. 2	Pam Justice	Wigwam Creek MS	30
11/8/21	Water Scene Investigation Pt. 2	Pam Justice	Wigwam Creek MS	32
11/8/21	Water Scene Investigation Pt. 2	Pam Justice	Wigwam Creek MS	29
11/9/21	Sweetwater Wetlands	APW Water Educator Team	Summit View Elementary School 1900 E Summit St, Tucson, Az, 85756	30
11/9/21	Water Scene Investigation Pt. 2	Pam Justice	Wigwam Creek MS	29
11/9/21	Water Scene Investigation Pt. 2	Pam Justice	Wigwam Creek MS	28
11/9/21	Water Scene Investigation Pt. 2	Pam Justice	Wigwam Creek MS	30
11/9/21	Water Scene Investigation Pt. 2	Pam Justice	Wigwam Creek MS	26
11/10/21	Water Scene Investigation	APW Water Educator Team	Amphi Online Academy 701 W Wetmore Rd, Tucson, Az 85705	74
11/15/21	Pump-It-Up	APW Water Educator Team	Paulo Freire Freedom School- Downtown 47 E Pennington St, Tucson, Az, 85701	22
11/16/21	Groundwater Flow Model	APW Water Educator Team	Lauffer Middle School 5385 E Littleton Rd, Tucson, Az, 85756	61
11/17/21	Discovery Journey	APW Water Educator Team	Paulo Freire Freedom School 300 E University Bl, Tucson, Az, 85705	28
11/17/21	GEC Lesson 1	Amber Huges		13
11/17/21	Groundwater Presentation	Cactus View ES	Phoenix	82
11/18/21	Groundwater Flow Model	APW Water Educator Team	La Paloma Academy-South Campus 5660 S 12th Av, Tucson, Az, 85706	27

11/19/21	AZ STEM Adventure	APW Water Educator Team	Online	1670
11/22/21	Groundwater Flow Model	APW Water Educator Team	Paulo Freire Freedom School 300 E University Bl, Tucson, Az, 85705	28
11/23/21	Discovery Journey	APW Water Educator Team	Las Puertas Community School 100 W 37th St, Tucson, Az, 85713	62
11/23/21	Groundwater Presentation	Rancho Gabriela	Surprise	186
11/29/21	Water Scene Investigation	APW Water Educator Team	Satori Charter School 3727 N 1st Av, Tucson, Az, 85719	21
11/30/21	Sweetwater Wetlands	APW Water Educator Team	La Paloma Academy-South Campus 5660 S 12th Av, Tucson, Az, 85706	27
12/1/21	GEC Lesson 2	Amber Huges		13
12/2/21	Discovery Journey	APW Water Educator Team	Las Puertas Community School 100 W 37th St, Tucson, Az, 85713	41
12/6/21	Water Scene Investigation	APW Water Educator Team	Satori Charter School 3727 N 1st Av, Tucson, Az, 85719	21

Section 8 – Arizona Project WET Teacher Workshops

Date	Title	Presenter/ Contact	Location / School	Attendance (if available)
6/14/21	Salt River Project Workshop	Pam Justice	Online	12
6/1/21	Colorado River Academy	Pam Justice	Online	13
6/8/21	Build Your Own Basin Academy	Betsy Wilkening	Online	15
6/22/21	Tucson Water Journey Workshop	Holly Thomas-Hilburn	Online	10
6/21/21	Earth Explorers Academy	Holly Thomas-Hilburn	Online	9
6/7/21	Outdoor Science Investigations Workshop	Kerry Schwartz	Online	14
1/21/21	January-February Water Festival Workshop	Julie Hasty	Online	13
4/7/21	April Water Festival Workshop	Kirstyn Kay	Online	6
8/3/21	August-September Water Festival Workshop	Kirstyn Kay	Online	16
9/15/21	September Water Festival Workshop	Kirstyn Kay	Online	13
10/14/20	Peoria Teacher Workshop	Julie Hasty	Online	17
1/21/21	January Teacher Workshop	Julie Hasty	Online	15
4/7/21	April Teacher Workshop	Julie Hasty	Online	10
8/15/21	August-September Teacher Workshop	Julie Hasty	Online	24
9/15/21	September Teacher Workshop	Julie Hasty	Online	13

Section 9 – WRRC Students

UNDERGRADUATES

Garcia, Roberta	Environmental & Water Resource Economics	BS	N/A
Hamie, Mohamed	Biochemistry and Mathematics	BS	May 2021
Nanez, Rocky	Environmental Science	BS	May 2023
Johnson, Hannah	Ecology and Evolutionary Biology	BS	May 2022
Jones, Anna	Environmental Science	BS	May 2022
Garcia, Roberta	Environmental & Water Resource Economics	BS	May 2021
Landavazo, Andrea	Biochemistry	BS	May 2021
Lopez, Annissa	Engineering	BS	May 2023
Smith, Peyton	Environmental Science	BS	May 2022
Thomas, Corine	Natural Resources	BS	May 2021

GRADUATES

Bernat, Rebecca	Soil, Water & Environmental Science	PhD	January 2022
Cruz Ayala, Mary-Belle	Arid Lands Resource Sciences	PhD	August 2021
La Farga, Paul	Urban Planning	MS	May 2021
McHugh, Taylor	Landscape Architecture	MA	May 2023
McGreal, Brian	Agricultural and Resource Economics	MS	May 2021
Morales, David	Hydrology	MS	May 2023
Moreno, Miguel	Indigenous Peoples Law and Policy	JD	May 2021
Tritz, Claire	Hydrology	MS	May 2021
Williams, Simone	Arid Lands Resource Science	PhD	December 2023