Water Resources Research Center

College of Agriculture and Life Sciences, The University of Arizona

The Water Resources Research Center and the TRIF Water Sustainability Program

UA Extension Water Summit May 1, 2008

Sharon B. Megdal, Director Water Resources Research Center 350 N. Campbell Tucson, AZ 85721 520-792-9591, ext 21 fax 520-792-8518 email smegdal@cals.arizona.edu web site: www.cals.arizona.edu/azwater/



WRRC is a Research and Extension Unit in CALS

- The University of Arizona's Water Resources Research Center (WRRC) promotes understanding of critical state and regional water management and policy issues through <u>research</u>, community <u>outreach</u> and public <u>education</u>.
- The WRRC is committed to:
 - assisting communities in water management and policy;
 - educating teachers, students and the public about water; and
 - encouraging scientific research on state water issues.

We do this in a variety of ways...

- Publications
- Conferences and other gatherings
- Web Site
- Applied Research
- Federal 104b Program
- Educational programs
- Involvement in UA-wide Water Sustainability Program and other cross-college or interdisciplinary programs
- We try to be networked!

Arizona Water

Prepared by the Water Education Foundation and The University of Arizona Water Resources Research Center





James E. Rogers College of Law The University of Arizona

VOLUME 49

R F

GOOD INTENTIONS, UNINITENDED CONSEQUENCES: THE CENTRAL ARIZONA GROUNDWATER REPLEMISHMENT DISTRICT

Chris Avery, Carla Consoli, Robert Glennon & Sharon Megdal

Questions Arise as Water Park Plans to Let the Good Times I

ARIZONA WATER RESOUR

This raises a question. Is the recreational

12 12 12 12 12 12 12 CONTENT

husiness issues



Prescott Valley's Effluent Water-Rig Auction is Innovative, Profitable

Town learns strategy as it plans, researches, and conducts

acre-feet of effluent water rights that could net the town over \$67 m efforts that went into researching and structuring the unprecedented

economic value for effluent or wastewater. It is also unique since it is Research, the consultant hired by the town to market the effluent au

Water Property Investors, LLC, a New York water investment firm, winning bid of \$24,650 per acre foot to acquire the water rights devi town through its wastewater treatment and recharge program. As the

ARTIFICIAL RECHARGE: Initi-Purpose Water

ARROYO

Conserve to Enhancevoluntary municipal water conservation to support environmental restoration



Publications!

INSEMERS IN CONCEPCE MAY

(RONNENTA)

Annual Conference

Water Resources Research Center 2008 Annual Conference

June 24, 2008 - Arizona Biltmore Resort & Spa, Phoenix

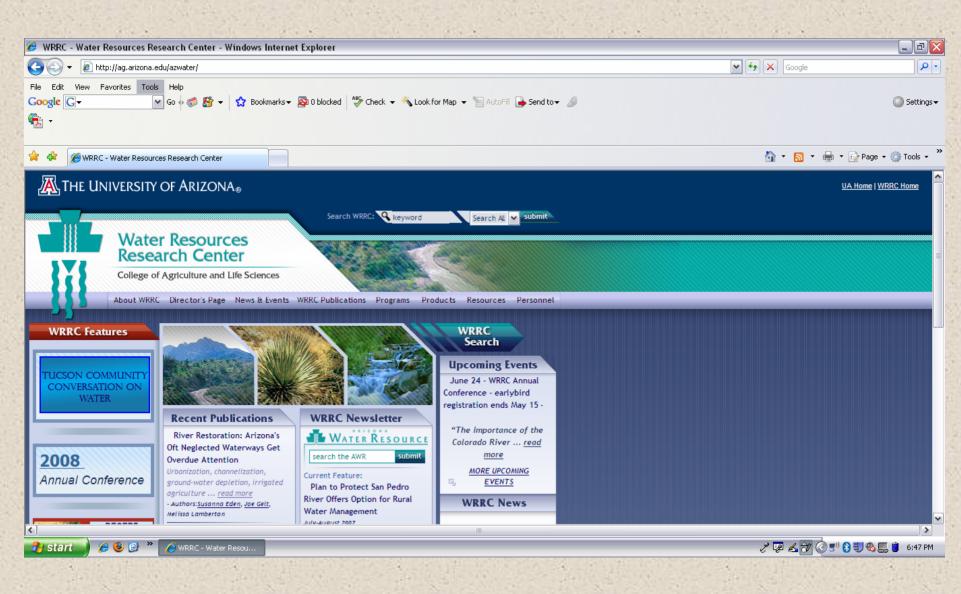
The Importance of the Colorado River to Arizona's Future Special Pool of Scholarships Available to County Extension Personnel (WRRC Funds)

THE UNIVERSITY OF ARIZONA.



The University of Arizona

www.cals.arizona.edu/azwater



Some Current/Recent Research Projects

- Recharge as a Tool for Meeting Policy Objectives (Hatch Project) (Several Papers)
- Evaluation of AMA Management Plans
- Water Resource Availabitlity Study; Tucson Regional Water Planning Perspectives Study
- Cochise County Water Use Study
- Lead author for CAST Paper on Freshwater Availability
- Conserve to Enhance
- Water Re-use

Newer Programs/Initiatives

- Congressionally authorized Transboundary Aquifer Assessment Program (AZ, NM and TX)
- Summer Research/Writing Internship
- Writing Contest
- Revision to Arizona Water Map
- GIS Capabilities
- International Conference on Best Practices in Water Policy

Other

- Brown Bag Seminar Series
- Additional conference (Tucson Community Conversation on Water) in 2007
- Many presentations to diverse audiences
- WRRC hosts Megdal's graduate seminar, Arizona Water Policy, every Spring
- NEMO
- Arizona Project WET
- WSP

Work Collaboratively with...

- Other WSP Centers and programs
- SWES, AREC, LAW, SBS Departments, Engineering, Udall Center, ISPE
- Local, State and Federal Government Agencies
- Private Sector
- Other Cooperative Extension Units



*Nonpoint Education for Municipal Officials ... and other Land Use Decision Makers

0

RIZONA





The NEMO Program

5 Key Elements:



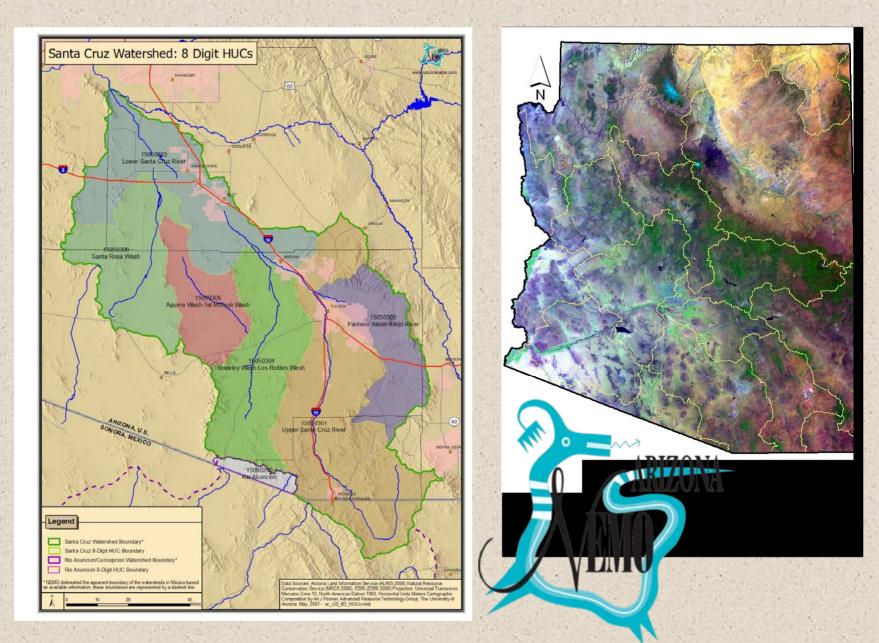
Little Colorado

Grand Carryon

- 1. Land Use Impacts on Natural Resources \rightarrow Water Quality
- 2. Natural Resource Based Planning
- 3. Land Use Decision Makers
- 4. Unbiased Research-Based Science
- 5. GIS Technology



Mapping, Watershed Planning, Decision tools -



Effective Water Education through partnerships that work



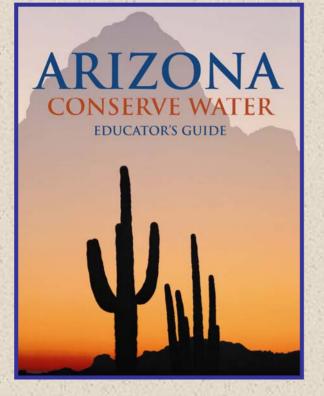
Arizona Project WET Statewide Partnerships

- Examples of effective partnerships that have leveraged staff positions and programs in the counties:
 - Five year, \$1million dollar contract with the City of Phoenix (multiple positions)
 - Two year grant with the Arizona Department of Water Resources (program coordinator)
 - Strong Partnership with Yavapai Co.
 - Developing Partnership with Pinal Co; Abbott Fund director for Ross Nutritional Products in Casa Grande and beyond found out about Arizona project WET from the web site.

www.cals.arizona.edu/azwater



Arizona Project WET Publications



The Conserve Water Arizona Educators Guide was named as a finalist in the Distinguished **Achievement Awards competition** of the Association of Educational **Publishers (AEP), the nonprofit** professional organization for educational publishers and content developers. (Science **Instruction Category**)

The winners will be announced in June.

Water Sustainability THE UNIVERSITY OF ARIZONA

Water Sustainability Program Coordinating Water Centers



The SRC/Sematech **Engineering Research Center (ERC)** for Environmentally Benign Semiconductor Manufacturing develops science, technology and educational methods to lead the semiconductor industry on environmental issues.



The NSF Water Quality Center (WQC) conducts research that evaluates physical, chemical, and microbial processes that affect the quality of surface and subsurface waters utilized for potable supplies.



The NSF Science and Technology Center for **Sustainability of semi-Arid Hydrology and Riparian Areas (SAHRA)** focuses on developing integrated, multidisciplinary understanding of the hydrology of semi-arid regions.



The Water Resources Research Center (WRRC)

promotes understanding of critical state and regional water management and policy issues through research, community outreach and public education.



The **Superfund Basic Research Program** (SBRP) advances science and applies biomedical and environmental research for improvement of human health and the environment.

WSP Components

Competitive Grants Program

- Has funded many outreach/education projects and applied research, including Arizona Know Your Water
- Recruitment & Research Initiatives
 - Water Quality Specialist (SWES)
 - FY09 funding for Maricopa County Agent
- Student Fellowships
- Education & Outreach
 - Staff position, extend programs in Maricopa Co.
 - Several Projects
- Water Center Activities and Directed Initiatives
 WRRC has funded Extension programs/projects

ArizonaWater.org

Arizona Water	
Search Directories:	Organizations Reports & Data Research Facilities Expertise Degrees Centers
Quick Search	state-wide resources Roll your mouse over the tabs above to see a brief summary about each section.
 ✓ Degrees ✓ Short Courses ✓ Centers Submit Search > Ask the Water Wizard (This section is under construction) What is your 5-digit zip code? When your 2	Arizona Water is your one-stop information center for water in Arizona. This integrated network of searchable databases includes water expertise, degree programs, and research efforts at all three state universities, and local, state, federal, and tribal organizations and associations and partnerships with responsibilities for water. You can also search for reports and data on water information for specific areas of the state. In addition, Arizona Water provides links to <u>other services and tools</u> . You can subscribe to <u>Southwest Hydrology or Arizona Water Resource</u> , search for water modeling software and algorithms with <u>HydroArchive</u> , scan summaries of international water news translated from 8 languages with <u>Water News Watch</u> , and more.
Who are you? (please select user type) • What is your direct water source?	to get you to the information you need quickly and easily. Select and search one database, or perform a QuickSearch on several. Try using the Ask the Water Wizard for answers to Frequently Asked Questions. You can also email your questions to <u>email@arizonawater.orq</u> , or call us at 520-626-0592.
(select a water source) What do you need to know? keywords: Ask the wizard >>	This website was created by the <u>Water Sustainability</u> <u>Program</u> (WSP) of the University of Arizona. <u>click here</u> for more <u>Edit data (admin website)</u> <u>The UNIVERSITY OF ARIZONA.</u>
©2005 Arizona Board of Regents. Hoste	d by SAHRA. Version: 1.12