



Arizona Rivers



Mission: Facilitate collaboration between teachers / students and water scientists / professionals to promote long-term research & monitoring of rivers & riparian areas.

Arizona Rivers supports your efforts to enhance student science achievement through the study of water quality, riparian ecosystems and stream restoration.



Goals - encourage

- Student-based research projects
- Local mentoring & support
- Place-based environmental science
- Participation by individuals & classrooms
- K-Gray citizen science collaboration

Possible Projects

- Collect water quality data
- Investigate riparian ecology
- Monitor stream restoration
- Assess habitat diversity
- Compare pre/post disturbance observations

Support – for teachers

- Training stipends
- Implementation grants
- Equipment check-out
- Local monitoring networks

Major Collaborators

Federal Agencies

- US Geologic Survey
- US Army Corp of Engr.
- Bureau of Land Mgmt.

State & Co. Agencies

- AZ Game & Fish
- AZ State Parks
- Pima Parks & Rec.
- Pima/Maricopa Flood Control

Non-Profits

- AZ/ Tucson Audubon
- Biosphere 2

Project Characteristics

- Baseline environmental monitoring
- Authentic earth system science
- Best for grades 8-14
- Well-defined protocols
- Non-advocacy
- Focus on Riparian ecology & hydrology
- Emphasize student-originated ideas
- Distributed project-based networks
- Arizona focus; Our role as facilitator
- Locally-based science guidance & mentoring
- Encourages non-school participation
- Encouraging projects that benefit community

HS Riparian Research Experience

- Two week field experience (June)
- Three-day skills workshop
- Ten high school students
- Field observations at a dozen river sites
- Environmental stewardship
- Hiking, camping, ecology

Mentors drawn from:

- AZ Riparian Council
- AZ Hydrologic Society
- AZ Science Center
- ADWR, ADEQ
- Nature Conservancy
- Master Watershed Stewards
- GLOBE
- NEMO
- SRP, CAP
- Watershed Monitors

Rio Salado, Santa Cruz, Verde, San Pedro