Region 9 Water Quality Coordination Project

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http://usawaterquality.org
Region 9

Land Grant Institutions

- Arizona
- California
- Nevada
- Hawai’i
- American Samoa
- Commonwealth of the Northern Mariana Islands
- Federated States of Micronesia
- Guam
- Republic of the Marshall Islands
- Republic of Palau
- Diné College – Tsaile, AZ
- Tohono O’odham – Sells, AZ
Did you know our region ... 

• includes small islands with populations of 20,000 – 150,000 and the third largest and most populous state in the country with over 34 million residents? 
• includes desert areas receiving less than 2 inches annual precipitation and tropical island areas with over 200 inches? 
• spans 8 time zones, the International Date Line, and both sides of the equator?
Region 9 – Southwest States & Pacific Islands

http://ag.arizona.edu/region9wq
Regional Problems

- Piggeries
  - Western Pacific Islands
  - Less than 10 pigs
  - Located on stream
  - EPA Region 9 identified problem

- Drinking Water

- Drought
Regional Themes

- Animal Manure & Waste Management
- Drinking Water & Human Health
- Water Conservation & Ag Water Management
- Watershed Management
Regional Projects

- Survey of attitudes and awareness of water quality issues
- Regional web site
- Animal Waste Management
  - Dry litter systems, demonstrations, site visits
  - *Leptospira* detection in water, survival in compost
  - Impacts of feral pigs
  - Aquaculture
Regional Projects

- Water Conservation and Ag Water Management
  - Food safety & water quality (CA and HI)
  - Reclaimed water reuse/irrigation
  - Nitrogen leaching index

- Watershed Management
  - Stream water quality
  - 319 comprehensive web site (HI)
  - Lake Tahoe companion pet wastes and water quality effects
  - Navajo undergraduate science student retention
Regional Projects

- Drinking Water and Human Health
  - Web sites (state and regional)
  - Rainwater catchments
    - Rain water catchment design & maintenance
    - Water quality testing
  - Science education in the islands
  - Solar distillation in the islands
  - Onsite wastewater treatment
Arizona Programs

- Watersheds
  - Project WET
  - Master Watershed Stewardship
  - *Preliminary Evaluation of Metal Contamination Sources in the Colorado River from Measurement of Lead and Uranium Isotopic Ratios*
  - *Assessing the Risk for Microbial Contamination of Leafy Vegetables from Overhead Irrigation*

- Onsite Wastewater Treatment Education

- Water Conservation & Ag Water Management/Irrigation
  - *Assessment of the Impact of Laundry Graywater Usage*
Arizona Programs

- Safe Drinking Water
  - Pilot-testing Safe Drinking Water hotline in Maricopa County
  - Pilot-testing Private Well Owner education kits in Cochise & Yavapai Counties
  - Reprint of *Arizona: Know Your Water*
Arizona Cooperative Extension
Water Quality Program

http://ag.arizona.edu/waterquality
Challenges with working with Extension faculty and/or programs

- Challenges with faculty?  NO
- Challenges with programs? YES
  - Difficult to keep up with all the programs in ACE
  - Need mechanism to get information on various programs/projects (letting ACE personnel know what is happening)
    - Reporting (more frequently than annually)
    - Regular email postings (like Michael A. Crimmins’ Arizona climate web briefing postings)
    - Newsletters, listservs, etc.