

texas water resources institute make every drop count

The Texas Water Resources Institute has been working since it was established in the early 1950s to “make every drop count” through water research, education and outreach. The Institute helps to identify and solve the most pressing water issues in Texas and beyond by connecting universities, researchers, educators, and agencies with project funding and by sharing important water information with citizens.

The Texas Water Resources Institute (TWRI) fosters, facilitates, administers, and communicates priority water resources research and educational outreach programs throughout Texas and beyond. The Institute is part of Texas AgriLife Research, the Texas AgriLife Extension Service and the College of Agriculture and Life Sciences at Texas A&M University. As a member of the National Institutes for Water Resources, TWRI is part of a network of 54 state and territories water resources research institutes.

Water Resources Research and Extension

Working with water-related faculty and associates, TWRI successfully obtains grants from state and federal governmental agencies and others to address priority water resources issues. The Institute currently manages approximately 90 active projects with more than \$24 million in funding. Over the last eleven years, the Institute has brought in more than \$70 million for water resources research and Extension projects.

Collaborations and Partnerships

TWRI thrives on collaborations and partnerships. In addition to Texas A&M, the Institute maintains joint projects with 15 Texas universities, including three out-of-state universities, involving some 250 faculty and associates. TWRI also partners with more than 40 federal, state and local governmental organizations; and numerous others, including engineering firms, commodity groups and environmental organizations.

Through these partnerships, TWRI links academic expertise with agencies and stakeholders to provide research-derived, science-based information to help answer diverse water questions. The Institute produces high-quality communications materials to convey this critical information to interested publics.

Professional Training

TWRI's Water Resources Training Program markets and administers short courses on diverse water-related topics. The training courses provide water resources professionals with intensive hands-on instruction on the latest technologies and products of university research.



Next Generation of Researchers

Investing in the future, TWRI awards funds to graduate students from Texas universities through the U.S. Geological Survey Water Resources Research Grants and the W.G. Mills Scholarship Program. These opportunities enable students to conduct research on priority water issues.

TWRI Focus Areas

- Agricultural and Urban Irrigation Efficiency
- Alternative Sources of Water
- Water Conservation
- Watershed Management Programs
- Water Quality

TWRI Federal Initiatives

- Fort Hood: Fort Hood Range Revegetation and Fort Hood Training Lands Restoration and Maintenance (facilitated)
- Lake Granbury and Lake Whitney Assessment Initiative and Water Quality Education for Hood County
- North Central Texas Water Quality (Provide Assistance to Improve Water Quality in North Central Texas)
- Rio Grande Basin Initiative (Efficient Irrigation for Water Conservation in the Rio Grande Basin)
- Rio Grande Basin Salinity Management Program (facilitated)
- U.S./Mexico Transboundary Aquifer Assessment Program
- Water Conservation Technologies and Management Practices in the Ogallala Aquifer Region

TWRI 319(h) Projects

- Arroyo Colorado: Arroyo Colorado Watershed Protection Plan Implementation; Arroyo Colorado Agricultural Nonpoint Source (NPS) Assessment
- Agricultural NPS Remediation in the Cedar Creek Reservoir
- Bacterial Source Tracking for Little Brazos River Tributaries Bacteria Assessment
- Buck Creek: Buck Creek Watershed Protection Plan Development; Modeling Support for Buck Creek Watershed Protection Plan Development
- Development of a Watershed Protection Plan for the Attoyac Bayou
- Education Program for Improving Water Quality in Copano Bay
- Environmental Effects of In House Windrow Composting of Poultry Litter
- Fate and Transport of *E. coli* in Rural Texas Landscapes and Streams
- Groundwater Nitrogen Source Identification and Remediation in the Texas High Plains and Rolling Plains
- Pecos River: Pecos River Watershed Protection Plan Implementation; Pecos River Monitoring and Dissolved Oxygen Modeling
- Statewide Implementation of Lone Star Healthy Streams
- Texas Watershed Planning Short Course

Other Projects

- Arroyo Colorado: Arroyo Integrated Farm Management Education Program, Pesticide Education in the Coastal Zone of the Arroyo Colorado Watershed, Enhancing Water Quality and Dredged Material for the Port of Harlingen (Phase I), Public Service Announcements for the Arroyo Colorado Watershed
- Assembly and Testing of an On-Farm Manure to Energy Conversion BMP for Animal Waste Pollution Control
- Bacteria Runoff BMPs for Intensive Beef Cattle Operations
- Microbiology, Wastewater Treatment and Wetland Issues in Harris County
- Modeling Support and Bacterial Source Tracking for Big Cypress Creek Bacteria Assessment
- Modeling Support for Little Brazos River Tributaries Bacteria Assessment TMDL

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