Texas Stream Team
Program Overview of Activities in Brazos River Basin

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Texas Stream Team

...is a joint partnership with Texas Commission on Environmental Quality, U.S. EPA Region VI, Texas State University-San Marcos, and numerous partners.
Watershed Education

Water Quality Monitoring

Stakeholder Engagement and Community Action
Watershed Education
Data intended to be used for problem identification, education, research, and local decision making. Data are collected within a TCEQ approved QAPP.
Brazos River Watershed
Citizen Water Quality Monitoring Site Locations

17 active sites
110 inactive sites
Monitoring, Training, Outreach

• Lake Waco Wetlands teacher workshops 2010 and (July) 2011
• Four new sites at Waco Wetlands, Bosque River, and Lake Waco
• Reactivating sites on Sulphur Creek and Lampasas River
• Berta Stanikinos memorial
• Rio Brazos Master Naturalist, Lake Granbury; May 7
• Upper Bosque River Coalition, Hico, TX; April 9
• Monitor assisting with Brushy Creek sewage spill moving through farm
Advanced NPS Pollution Monitoring

• New parameters
  – Nitrate-nitrogen
  – Orthophosphate
  – Turbidity
    • Chemical method
    • Transparency Tube
  – Streamflow
Monitoring Procedures Videos

- Serve as reminders for trained monitors
- Demonstration of correct procedures for
  - Conductivity meter calibration
  - Conductivity measurement
  - Water temperature measurement
  - Dissolved oxygen measurement
  - pH measurement
  - Secchi Disk transparency and total depth measurement
  - Field observations (coming soon)
  - E. coli bacteria collection and measurement
Meeting of the Monitors
September 29, 30, October 1

iPhone application

Data reports
Texas Stream Team iPhone App

Current Application Features (Version 1.0):

- Electronic monitoring – No more paper forms!
- Data validation on ALL fields (quality assurance)
- Data stored to database on device and processed later
- Monitoring procedures field reference guide
- Video tutorials to demonstrate proper testing methods
- Problems form (email TST directly with any issues)
- Emergency page (phone #’s and Web page links)
- GPS location coordinates
How can citizen monitors bring capacity to restoration efforts?

- Good: 539
- Impaired: 386 (42%)
Adapting to change…

Trained citizen monitors can be a valuable component in helping water resource managers adapt to new challenges.