

<http://txstreamteam.rivers.txstate.edu/>

Texas Stream Team Program Overview of Activities in Brazos River Basin

Jason Pinchback

The preparation of this presentation is financed through grants from the
U.S. Environmental Protection Agency through
the Texas Commission on Environmental Quality



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.



PREPARED IN COOPERATION WITH THE Texas Commission on Environmental Quality and U.S. EPA. The preparation of this presentation was financed through grants from the Texas Commission on Environmental Quality

Watershed Education

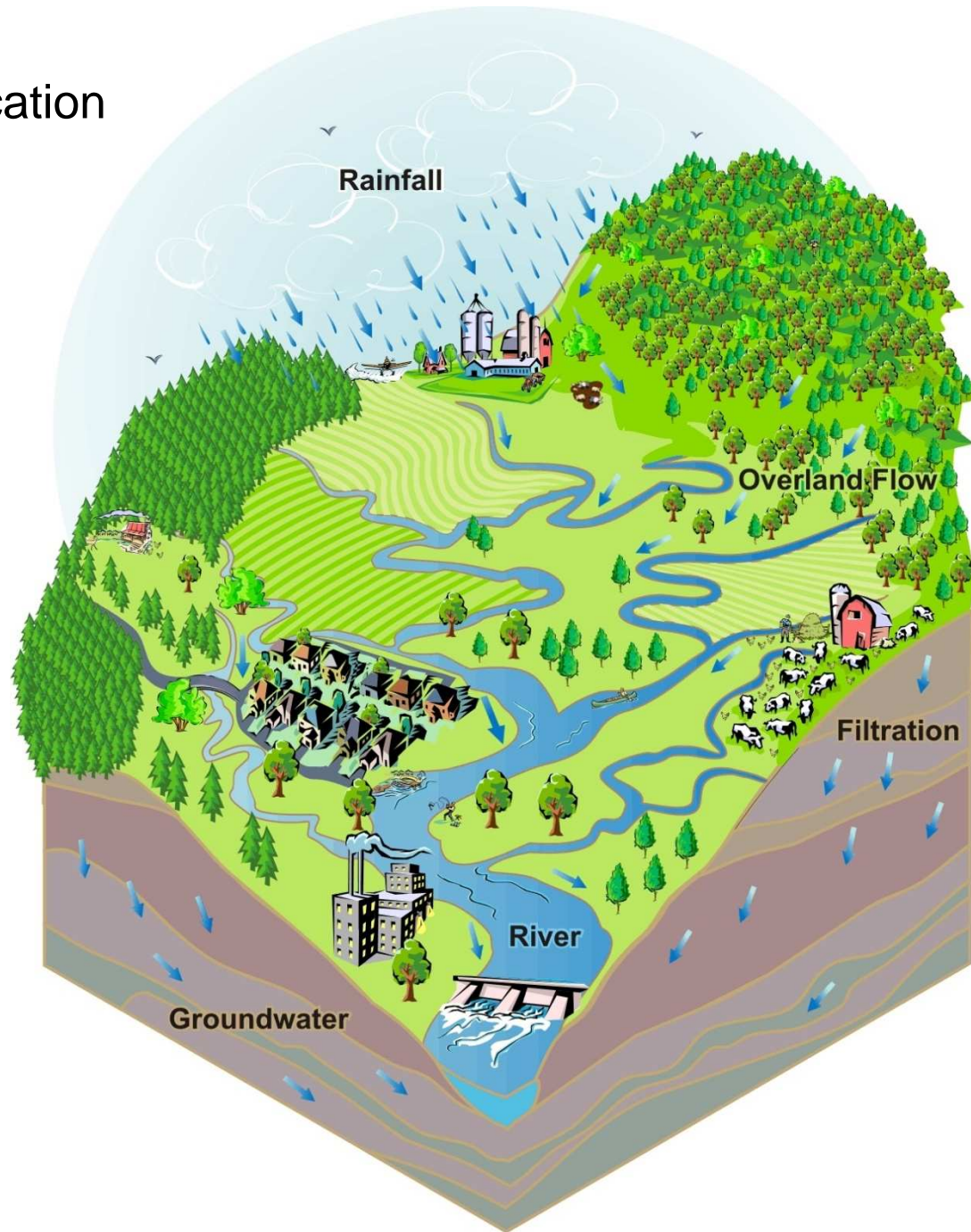


Water Quality Monitoring



Stakeholder Engagement and Community Action

Watershed Education



Water Quality Monitoring



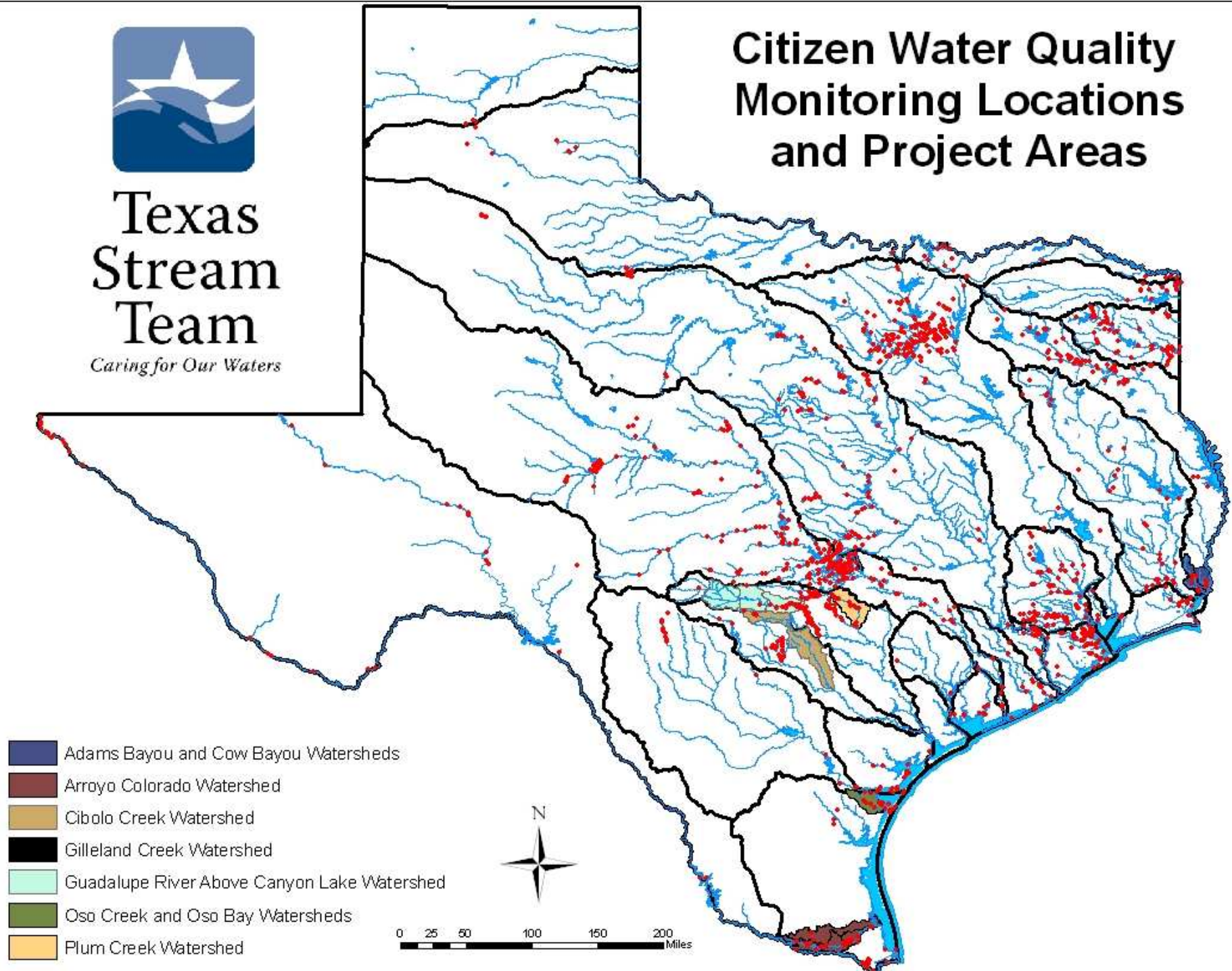
Data intended to be used for problem identification, education, research, and local decision making. Data are collected within a TCEQ approved QAPP.



**Texas
Stream
Team**

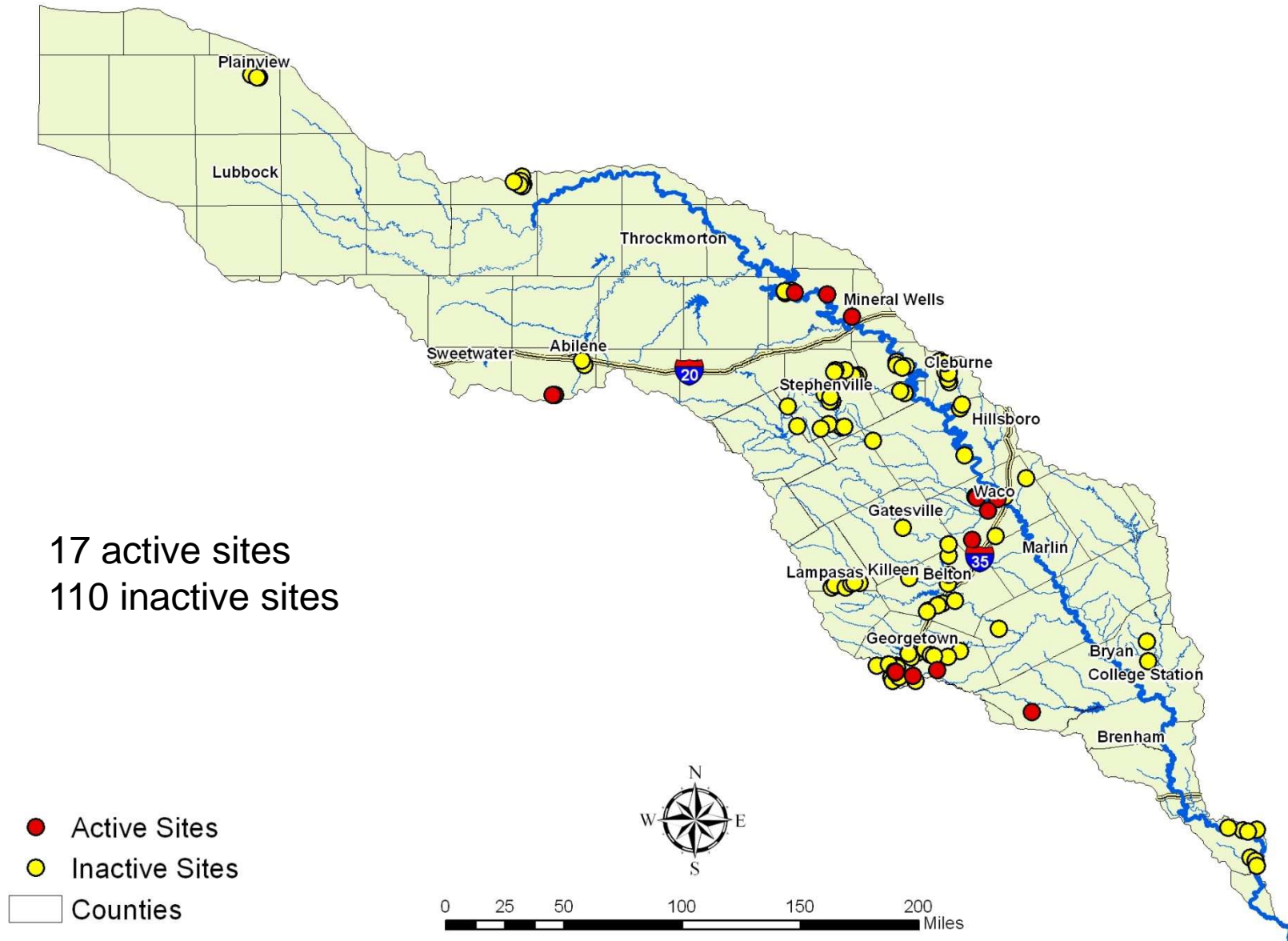
Caring for Our Waters

Citizen Water Quality Monitoring Locations and Project Areas



Brazos River Watershed

Citizen Water Quality Monitoring Site Locations



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





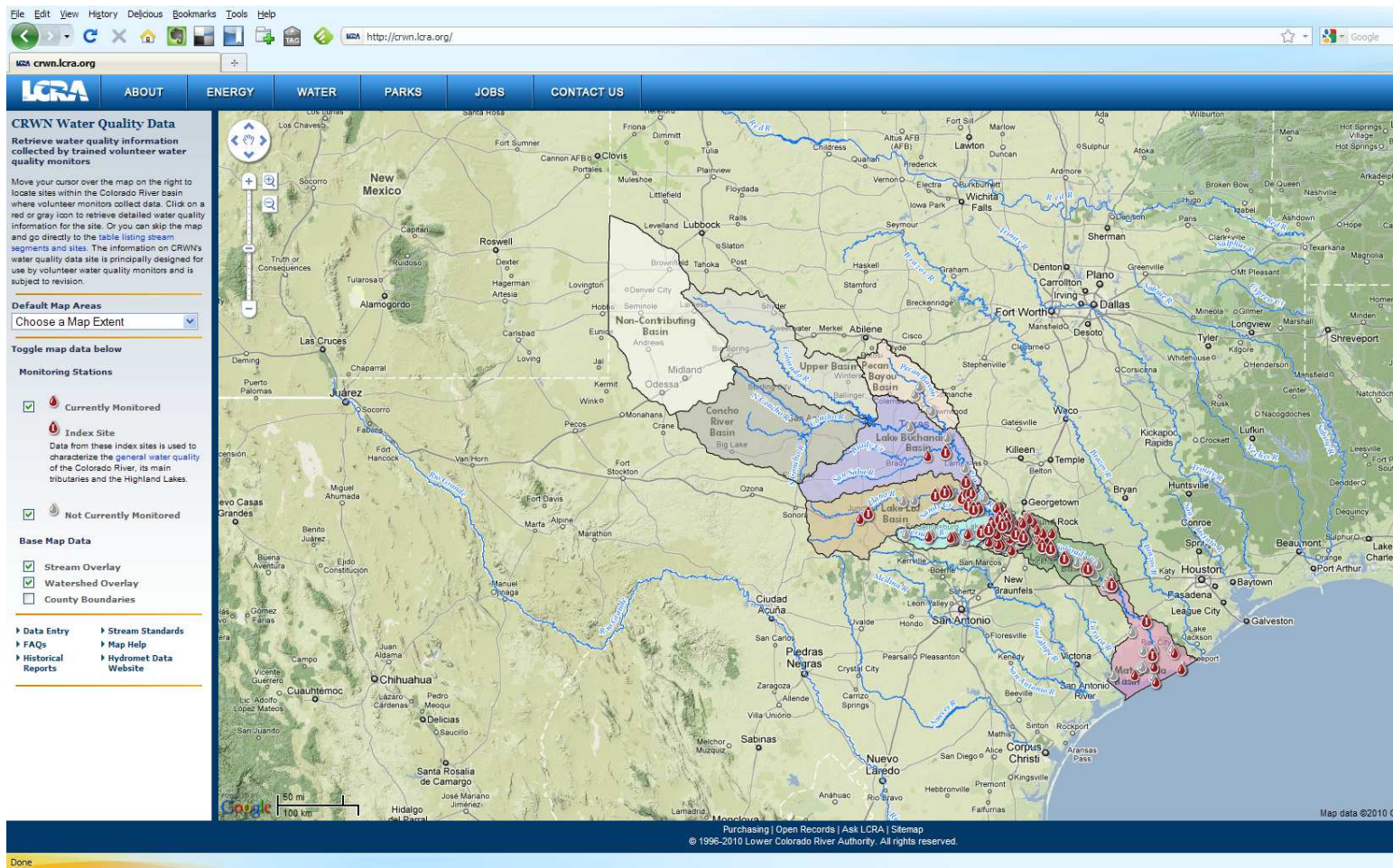


Advanced NPS Pollution Monitoring

- New parameters
 - Nitrate-nitrogen
 - Orthophosphate
 - Turbidity
 - Chemical method
 - Transparency Tube
 - Streamflow



On-line dataviewer: September 2011



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

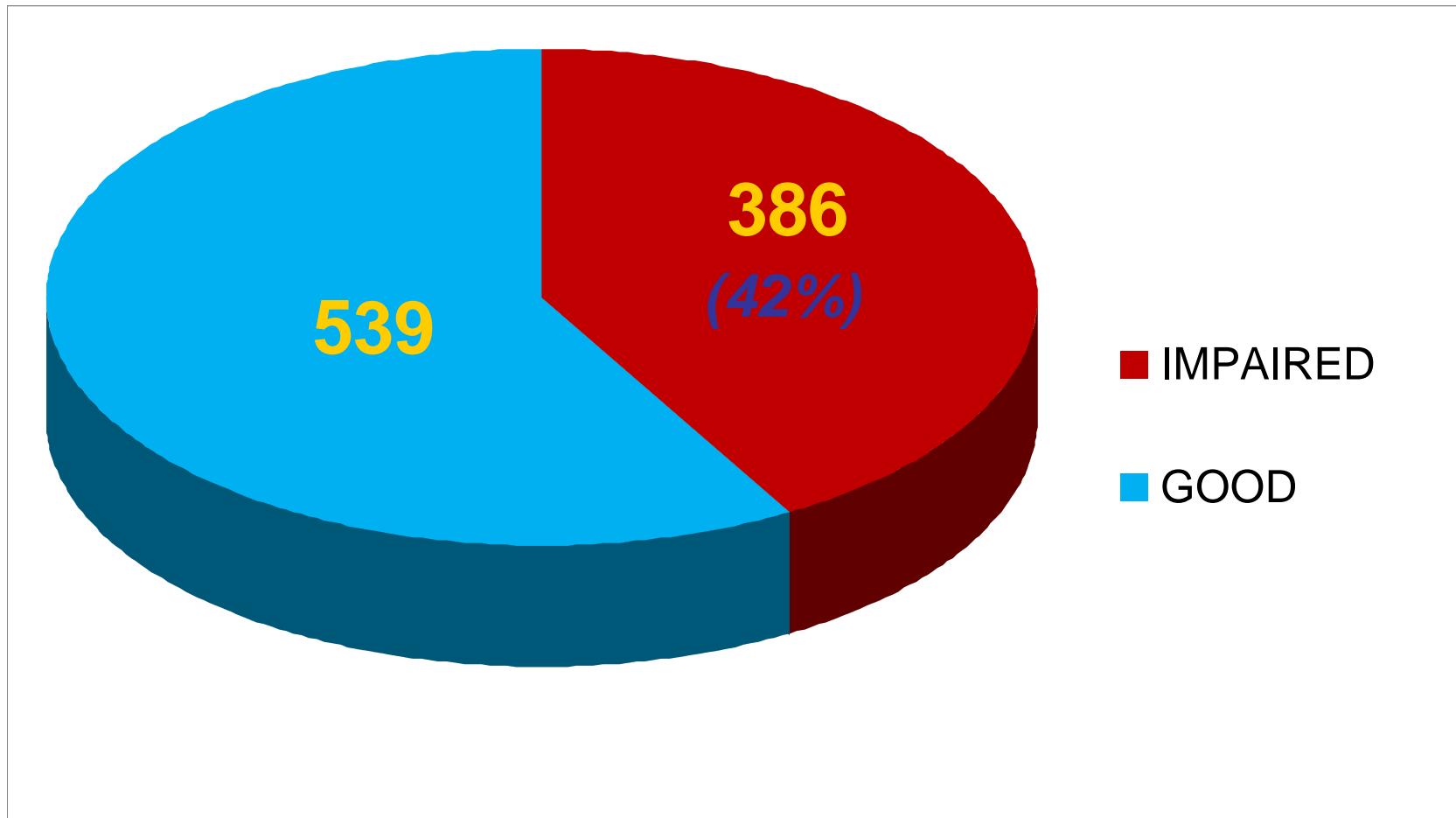
Texas Stream Team iPhone App

Current Application Features (Version 1.0):

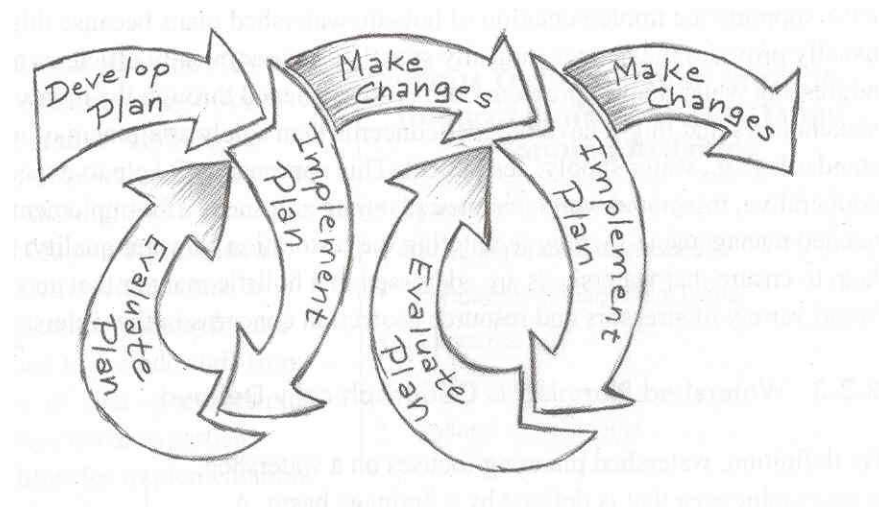
- Electronic monitoring – No more paper forms!
- Data validation on ALL fields (quality assurance)
- Data stored to database on device and processed later
- Monitoring procedures field reference guide
- Video tutorials to demonstrate proper testing methods
- Problems form (email TST directly with any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



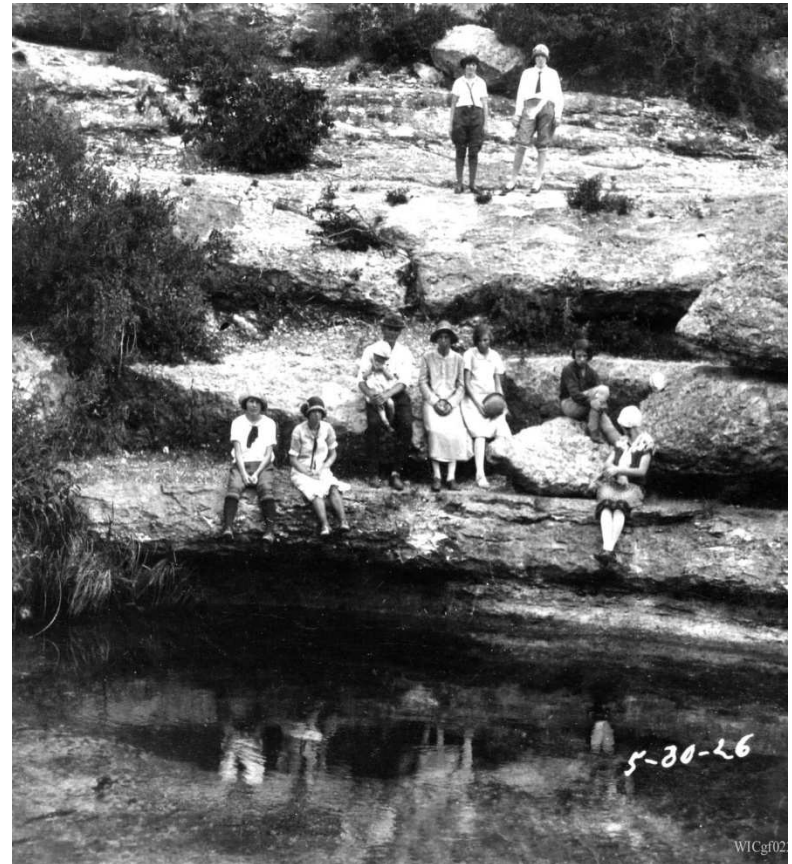
How can citizen monitors bring capacity to restoration efforts?



Adapting to change...



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





Jason Pinchback

Texas Stream Team, River Systems Institute

Texas State University – San Marcos

pinchback@txstate.edu

(512) 245-9148

