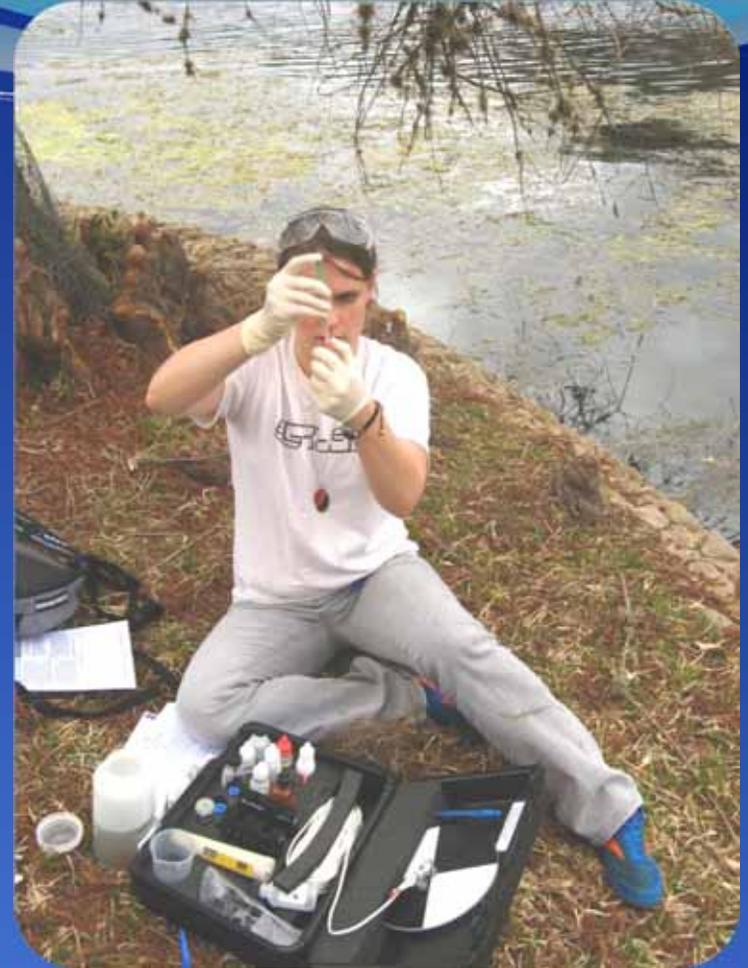


# Texas Stream Team

...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



## Texas Stream Team

A non-profit environmental education organization focused on watershed education and Nonpoint Source (NPS) pollution prevention

# Suite of Services

- Citizen Water Quality Monitoring Network
  - Core Monitoring (pH, D.O., S.C., field observations, Secchi disk, etc)
  - Advanced Monitoring (*E.coli*, Nitrates, Phosphates, Turbidity, etc)
- Watershed Education
  - Targeted Curriculum
  - Outreach Presentations
- Website Resources: Data Reports, Data Viewer, etc
- Partner Collaboration: River Authorities, Universities, etc
- Intensive Bacteria Surveys

# Citizen Water Quality Monitoring Network

Texas Stream Team Citizen Scientists are monitoring on a monthly basis to determine ambient water quality conditions as “Natural Resource Witnesses” – they are the eyes and ears out on the water.

## Data Uses:

- Problem Identification
- Research
- Education
- Local Decision Making
- BMP Effectiveness

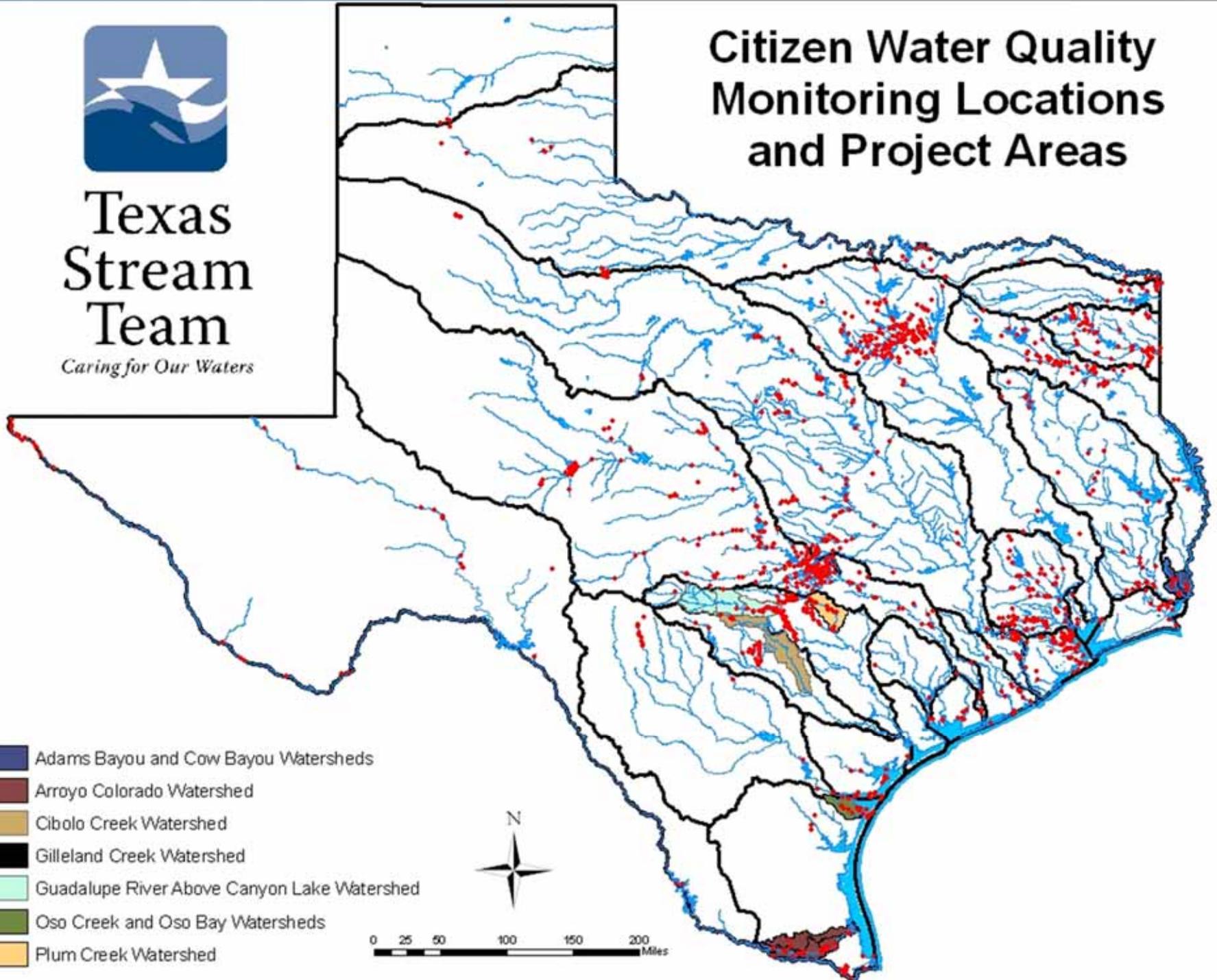




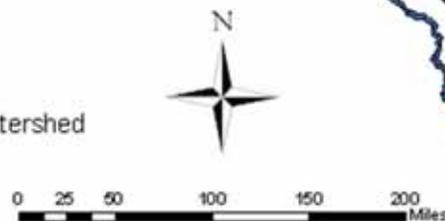
Texas  
Stream  
Team

*Caring for Our Waters*

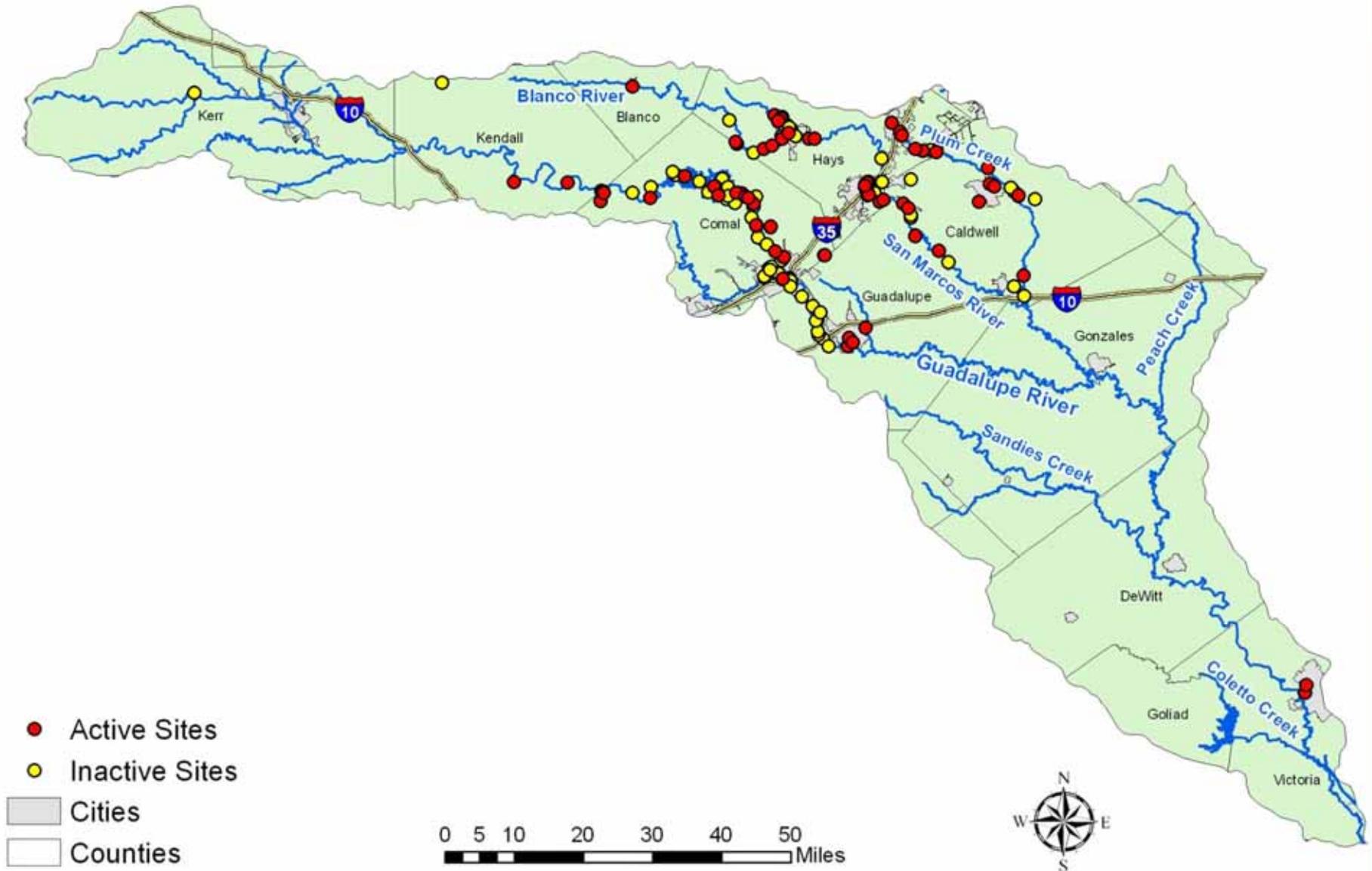
## Citizen Water Quality Monitoring Locations and Project Areas



- Adams Bayou and Cow Bayou Watersheds
- Arroyo Colorado Watershed
- Cibolo Creek Watershed
- Gilleland Creek Watershed
- Guadalupe River Above Canyon Lake Watershed
- Oso Creek and Oso Bay Watersheds
- Plum Creek Watershed



# Guadalupe River Watershed Citizen Water Quality Monitoring Site Locations



# Monitoring Activities in 2010 - 2011

Have added monitors in:

- Blanco State Park
- Wimberley Valley area
- Plum Creek (Kyle area)
- Upper San Marcos River
- Walnut Branch (Seguin)
- Geronimo Creek
- Mesquite Creek Wildlife Management Area
- Upper Guadalupe (RR 474, Canyon Lake)
- Middle Guadalupe (Seguin)
- Lower Guadalupe (Victoria)

# Other Monitoring Activities in 2010 - 2011

- Focused routine *E.coli* monitoring at storm water outfall in Upper San Marcos River
- Added a monitor to two sites in the Canyon Lake Gorge by the request of the U.S. Army Core of Engineers to study effect of Gorge water on the Guadalupe River.

*...Is there a negative impact on temperature or dissolved oxygen from Gorge water for the health of aquatic life in the Guadalupe?*

- Continuing to monitor for *E.coli* on the Blanco River at Five Mile Dam in Dudley Johnson Park for Hays County
- Kits now centrally stored at Kyle Fire Department, Wimberley Visitor Center, and at GBRA.

# Master Naturalist Statewide Conference

- In October, trained 24 Master Naturalists at the Annual Statewide Conference in New Braunfels at T Bar M Ranch
- This event yielded new monitors all over the state



# Texas Stream Team in the News

Paul and Mary Meredith wrote an article in the Victoria Advocate in December explaining Texas Stream Team's mission and goals. This article served as a recruiting tool for monitors in the basin and sparked interest in the program in a number of other ways.

# Outreach Activities in 2010 - 2011

City of Kyle Events: Earth Day, Steeplechase Park clean-ups



# Outreach Activities in 2010 - 2011

City of Lockhart Town Branch clean-up events



# Outreach Activities in 2010 - 2011

## Jacob's Well events



# Other Outreach Activities in 2010 - 2011

- U.S. Army Core of Engineers Public Lands Day – 9/18/2010
- Entire Kindergarten at DeZavala Elementary in San Marcos – 4/19/2010

# Recruitment of New Volunteers

- Texas Stream Team trains, equips, and supports volunteers in every major basin in the state
- Trainings can also be conducted by, or in collaboration with, partner entities
- Trainings can either be done over 2 separate days or can be done in a one day, tri-phased format. Phase I is a demonstration of the monitoring procedures, Phase II is do-it-yourself monitoring, and Phase III is completely independent of trainer input
- Trainee values are compared to trainer values after each Phase and progress is assessed along the way
- Texas Master Naturalist Chapters, school teachers, students, active citizens



*Thank you*

## Contact Information

Josh Oyer

Statewide Monitoring Coordinator

Texas Stream Team

River Systems Institute

Texas State University – San Marcos

Phone : 512-245-7591

E-mail : [oyer@txstate.edu](mailto:oyer@txstate.edu)