

TEXAS STREAM TEAM

Clean Rivers Program Steering Committee Meeting March 26, 2015

No natural resource is more important to our future than Water. Water is what we do.

RESEARCH | STEWARDSHIP | SERVICE | EDUCATION | SERVICE



THE MEADOWS CENTER
FOR WATER AND THE ENVIRONMENT
TEXAS STATE UNIVERSITY

TEXAS STREAM TEAM

Mission

- A joint partnership with the Texas Commission on Environmental Quality, U.S. EPA Region VI, Texas State University-San Marcos, and numerous partners.
- *To facilitate environmental stewardship by empowering a statewide network of concerned volunteers, partners, and institutions in a collaborative effort to promote a healthy and safe environment through environmental education, data collection, and community action.*



TEXAS STREAM TEAM

- Citizen Science
 - Volunteers trained to collect water quality data from established monitoring sites.
 - Temperature, pH, dissolved oxygen, conductivity, water clarity, field observations.
 - Advanced training for E. coli, nitrates, phosphates, turbidity



TST BY THE NUMBERS

- Since 1991
 - 5,758 Trained Citizen Scientists
 - 1,477 Sites Monitored
 - 40,135 Individual Sampling Events
 - 400 Currently Monitored Sites
 - 43,169 Volunteer Hours
 - 32 Partners

CRP PARTNERS



WHAT DO PARTNERS DO?

- Supply kits, reagents, and other equipment to certified monitors
- Provide trainings
- Create Monitoring Plans for citizen scientists
- Conduct Quality Assurance of the data and submit data to the Meadows Center
- Incorporate TST data into water quality projects
- Use TST data to supplement professional water quality monitoring
- Time spent training, monitoring, submitting data, and money used to purchase equipment counts as match for federal funding.

EDUCATION AND OUTREACH

- 12 Education and Outreach Events in the Guadalupe Blanco Watershed
- 663 Individuals reached at these events
- Audiences ranged from elementary students to Master Naturalists
- Focused on watershed awareness, nonpoint source pollution, and water quality.
- This year: Using Spring Lake as an education hub for elementary schools.
- Target outreach of 3500 individuals



TST PADDLERS



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EXPLORE SPRING LAKE.ORG

WHAT ARE THE DATA USED FOR?

- Informed Citizen Scientists about local water quality.
- Informed general public about local water quality.
- Data presented on Dataviewer.
- Data made available to TST Partners.
- Data available to WPP and TMDL Watershed Coordinators.
- Data compiled into Data Summary Reports.
- Data submitted to EPA's water quality database.
- Data can be used by environmental groups for presentations.
- Data can be displayed in interpretive displays, and at education and outreach events (e.g. Nature Centers).
- Monitoring sites can be an educational event for the public.
- Teachers and students can use data for research projects.

Jacob's Well FY14

Texas Stream Team (12 events)		
	Median	Mean \pm StDev
Temperature ($^{\circ}$ C)	19.9	20.3 \pm 1.6
pH (su)	7	7.0 \pm 0.1
DO (mg/L)	6.1	6.1 \pm 0.2
Conductivity (μ S/cm)	590	582 \pm 18

Clean Rivers Program (4 events)		
	Median	Mean \pm StDev
Temperature ($^{\circ}$ C)	20.6	20.8 \pm 0.5
pH (su)	7	7.1 \pm 0.1
DO (mg/L)	6.2	6.4 \pm 0.5
Conductivity (μ S/cm)	586	587 \pm 11

Shout out to TST Citizen Scientists Leigh Jandle

THANK YOU

Explore Spring Lake | Join Us | Partner Up | Sponsor a Project | Put Us to Work

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