

THE MEADOWS CENTER FOR WATER AND THE ENVIRONMENT

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

RESEARCH | STEWARDSHIP | SERVICE | EDUCATION





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

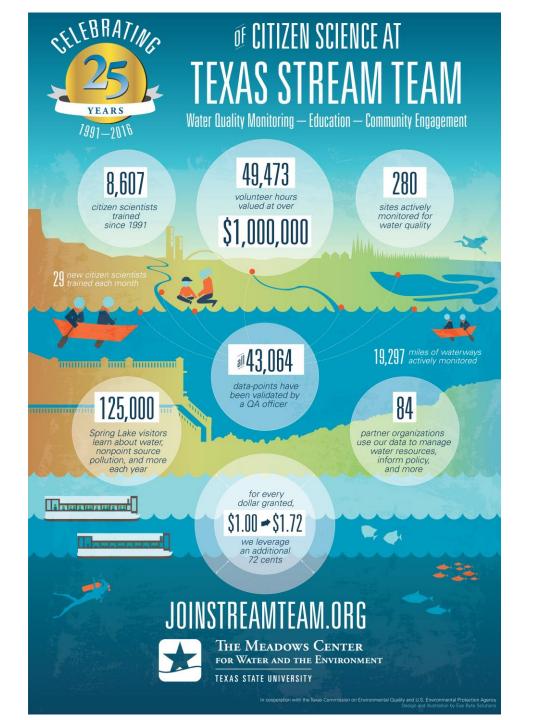
We bring together community members, students, educators, academic researchers, environmental professionals, and both public and private sector partners to conduct scientific research and to promote environmental stewardship.



Mission - 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 though environmental education, data collection, and community action.







Volunteers collect water quality data from established sites

- Standard training for temperature, pH, dissolved oxygen, conductivity, water clarity, field observations
- Advanced training for E. coli, nitrates, phosphates, turbidity



Protection Agency. ENVIRONMENTAL				HE ENVIRONMENT eam Team MONITORING FORM T (Black Ink or #2 Pencil)		Texas State Un Riverside Apts 601 University San Marcos, To Toll Free: (877)	Send fo: Toxas Stream Team Texas State University Riverside Apts - Unit C4 601 University Drive San Marcos, TX 78666-4616 Toll Free: (877) 506-1401 Email: bxstreamteam@bxstate.edu	
Station ID#	DYY	Site Do	escription	y)	Sample I		+ (not total depth	
Meter Calibration: (With Calibration	Date	of sampling.) Store and calil Standard Value		room temperatu Initial Meter Reading		Post Test	
Conductivity								
pH (7.0)								
Core Tests and Measureme	Y (μS/cm)			Reagents/Media: A List any expired:	ire any reagents (o	r media) expired?	□Yes □No	
Core Tests and Measureme	Y (μS/cm) 3 (Low) □ TE ERATURE (°C)	S Tester 4 (Hig	h) 🗖 Other	List any expired: Bacteria Test: E. CO	LJ (cfu/100 mL)	r media) expired?		
Core Tests and Measureme CONDUCTIVIT TDS Tester: WATER TEMPE	Y (µS/cm) 3 (Low) ☐ TE ERATURE (°C) TURE (°C) XYGEN (mg/L)			Bacteria Test: E. CO Average Samp INCUBATION: Period	LI (cfu/100 mL) le 1 S		(33+/-3°C)	

Data Uses

- Inform citizens, communities about local water quality
- Act as an early warning system for water quality issues
- Municipalities can incorporate into outreach messaging and monitoring efforts
- Supplemental data and education components applied towards WPP and TMDL activities
- Interpretive displays, education and outreach event
- Teachers and students use data for research projects
- Presented on <u>Dataviewer</u>
- Compiled in Annual Data Summary Reports
- Submitted to EPA's water quality database

Participation in local planning, protection, restoration and educational events

- Watershed protection plans, TMDLs, water conservation initiatives
- University research, long term monitoring efforts
- Clean ups, restoration, habitat monitoring
- Community events, school programs, youth programs



TST Partners, Network

- Provide kits, supplies, materials when budget allows
- Host trainings and educational events
- Create Monitoring Plans for citizen scientists
- Conduct quality assurance and submit data
- Incorporate TST data into projects, planning
- Use TST data to supplement professional water quality monitoring
- Act as watershed ambassadors, regional hubs
- Provide education and outreach, special projects, other support

Current TST Partners Active in the UTRB

- Aquatic Alliance
 - Rich Grayson
 - http://www.whiterocklake.org/index
 .php/programs/watermonitoring/texas-stream-team-andaquatic-alliance
- City of Dallas
 - Christopher Morris



Specialized Data Collection Options

- Determine priority volunteer monitoring sites within your watershed
- Pick and choose parameters to test on a monthly or quarterly basis
- Schedule site specific grab samples to be brought to certified lab



Training and WQ Monitoring Kit

- Become trained as a Texas
 Stream Team instructor and recruit/train citizen
 scientists as needed
- Purchase kits to check out to volunteers directly
- Team up with existing
 Stream Team chapters in
 DFW area to share kits and training opportunities



New TST Programs

- TST Paddlers
- TST Anglers
- TST Divers
- TST on Campus
- Monofilament Finders
- Biomonitoring
- Riparian Assessments
- Video



THANK YOU

Visit www.joinstreamteam.org for more info.

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