

Surface-Water Science

Flood Warning Networks
 Flood Inundation Mapping
 Flood Frequency Estimation
 Hurricane Storm Surge Monitoring
 Acoustic Discharge Measurements
 Annual Peak Discharge
 Basin Characteristics
 Flow Duration Analysis
 Gain-Loss Surveys
 Bathymetric Surveys
 Watershed Modeling
 Hydraulic Analysis
 Wave Spectral Analysis
 Geographic Information System (GIS) Applications
 Precipitation Gages
 Real-Time Stream Gages
 Evaporation and Evapotranspiration (ET) Gages
 Time-of-Travel Studies
 High-Water Marks and Indirect Measurements of Peak Discharge



Measuring stream discharge during flood using tethered acoustic Doppler current profiler



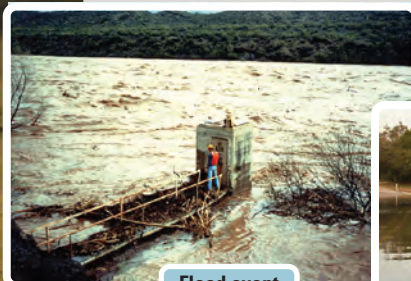
Staff gage



Acoustic Doppler current profiler



Gage house



Flood event

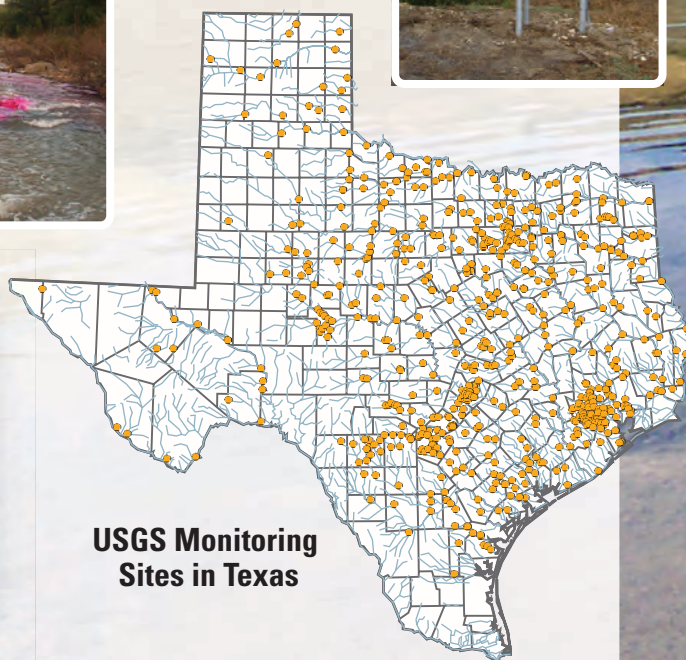


Release of Rhodamine dye for time-of-travel study

MISSION: To provide reliable, impartial, timely information that is needed to understand the Nation's water resources.

The Water Resources Discipline actively promotes the use of this information by decision makers to

- Minimize the loss of life and property as a result of water-related natural hazards, such as floods, droughts, and land movement
- Effectively manage groundwater and surface-water resources for domestic, agriculture, commercial, industrial, recreational, and ecological uses
- Protect and enhance water resources for human health, aquatic health, and environmental quality
- Contribute to wise physical and economic development of the Nation's resources for the benefit of present and future generations



USGS Monitoring Sites in Texas

The U.S. Geological Survey has been collecting water data in Texas since 1889. The first office was established in 1915 in Austin with a network of 18 streamflow-gaging stations. Today (2015), the Texas Water Science Center collects data at more than 550 stream and 140 lake stations.

The U.S. Geological Survey (USGS) Texas Water Science Center works in cooperation with approximately 100 municipalities, river authorities, groundwater districts, and State and Federal agencies in Texas to provide reliable, impartial scientific information to resource managers, planners, and other customers. This information is gathered by the USGS Texas Water Science Center to minimize the loss of life and property from natural disasters, to contribute to the conservation and sound economic and physical development of the Nation's natural resources, and to enhance the quality of life by monitoring water, biological, energy, and mineral resources.

If you have any questions or concerns with which we can assist you, contact us or visit our Web site at <<http://tx.usgs.gov>> or the national Web site at <<http://www.usgs.gov>>. We look forward to serving you in the near future.

Key contacts of the USGS Texas Water Science Center:

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Texas Water Science Center Locations

