USGS
science for a changing world

Surface-Water Science

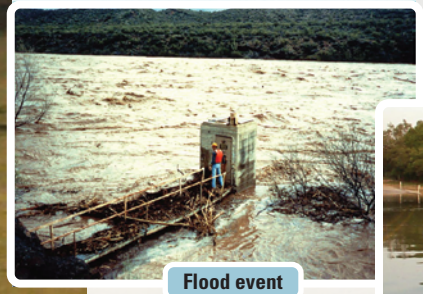
- Flood Warning Networks
- Flood Inundation Mapping
- Flood Frequency Estimation
- Hurricane Storm Surge Monitoring
- Acoustic Discharge Measurements
- Annual Peak Discharge
- Basin Characteristics
- Flow Duration Analysis
- Gain-Loss Surveys
- Bathymetric Surveys
- Watershed Modeling
- Hydraulic Analysis
- 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

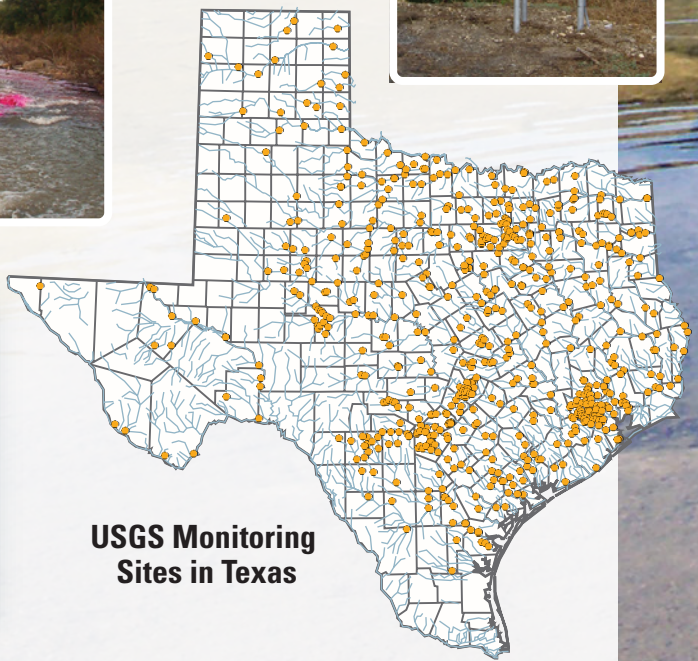
Acoustic Doppler current profiler

Gage house



Flood event

Release of Rhodamine dye for time-of-travel study



USGS Monitoring Sites in Texas

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

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 (2014), the Texas Water Science Center collects data at more than 500 stations.

U.S. Department of the Interior
U.S. Geological Survey

April 2014

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.

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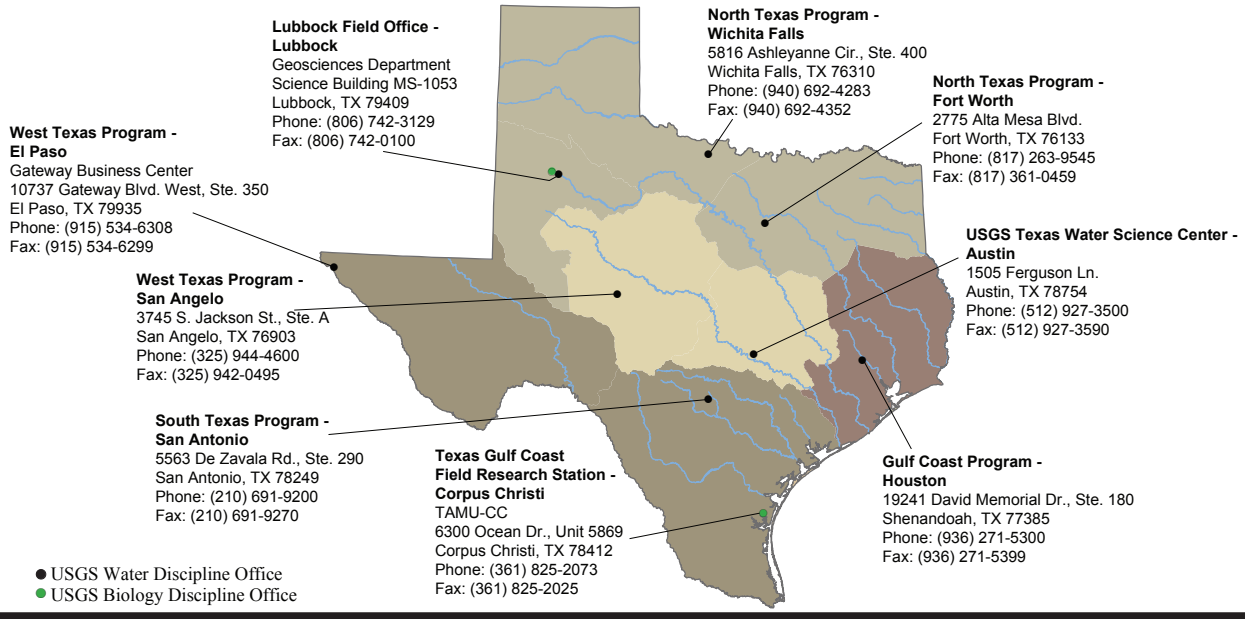
Texas Water Science Center Locations