

Geographic Information Science and Data Management

Remote Sensing

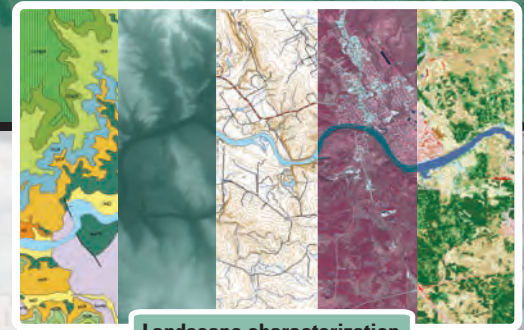
Satellite and aerial photo interpretation
Image processing

Geographic Information Systems (GIS) Analysis

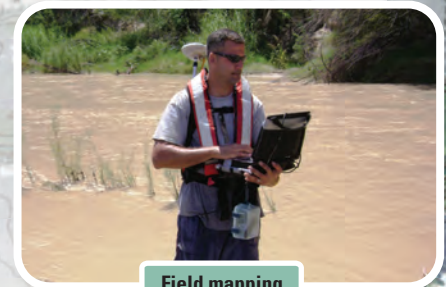
Publication-quality cartography
Elevation and land cover/land use data analysis
Watershed delineation and characterization
Spatial data production, analysis, modeling, and visualization
Metadata design and training
GIS custom tool development



GIS analysis



Landscape characterization



Field mapping

Data Management and Data Science

Database development and management
Data inventory, assessment, and integration
Database tutorial and standards development
Database hosting
Computer programming (Python, Perl, VB.NET, VBA, Javascript, MATLAB, R)
Data mining and statistical analysis

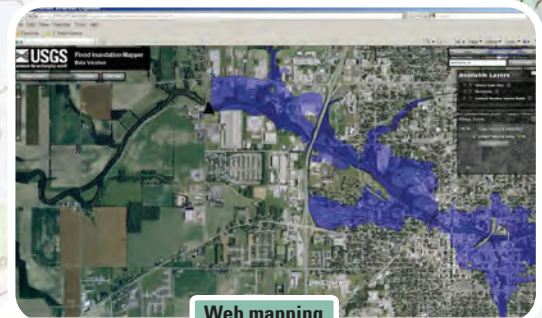
Web Services and Web Mapping

Web-based data management
Web-based mapping application development
Web design
Mobile application development

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



Web mapping

Web Page: <http://tx.usgs.gov/GIS>

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

