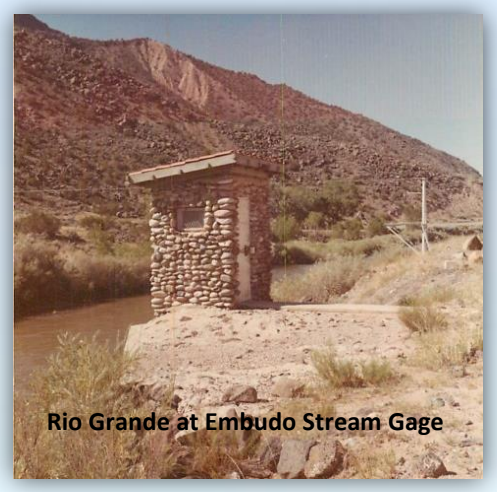
SURFACE-WATER SCIENCE


Rio Grande at Embudo Stream Gage

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

Dear Colleague/Cooperator/Stakeholder:

Streamgaging in the U.S. Geological Survey (USGS) began at Embudo, New Mexico in 1889. Currently (2012), the New Mexico Water Science Center operates 165 streamgages throughout New Mexico in support of multiple Federal, State, Tribal and local agencies to enable managers to make effective, timely decisions regarding the use of water resources. The reliable and impartial science provided by the USGS has been standard for the agency throughout the United States for the past 122 years.

Because of the diverse geography and ecosystems within the State, the USGS has made significant advances in monitoring surface-water discharge through an assorted system of real-time and near real-time monitoring stations. The data obtained are systematically uploaded onto the Internet and validated into the publicly accessible National Water Information System (NWIS) database within hours of collection. These capabilities provide immediate assessment of current hydrologic conditions and can be used for flood forecasting, flood stage, and sediment transport.

The standard procedures and protocols developed by the USGS offers a professional approach to monitoring streamflow that can be tailored to each agency's requirements. From streamgages that monitor water deliveries for treaties and compacts, to real-time flood-warning stations, the USGS has the technical capabilities and personnel to help agencies address any hydrologic issue.

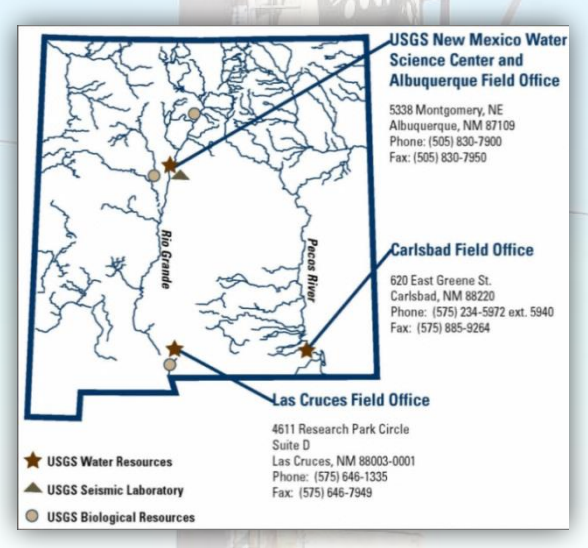
If you have any questions or concerns with which we can assist you, contact us or visit our Web site at: http://nm.water.usgs.gov or the national Web site at: http://water.usgs.gov . We look forward to serving you in the near future.

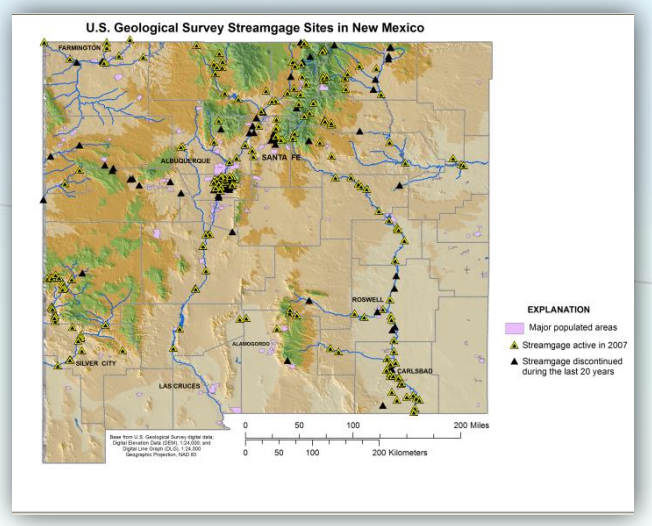
New Mexico Water Science Center

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

The Water Mission Area 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.**





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