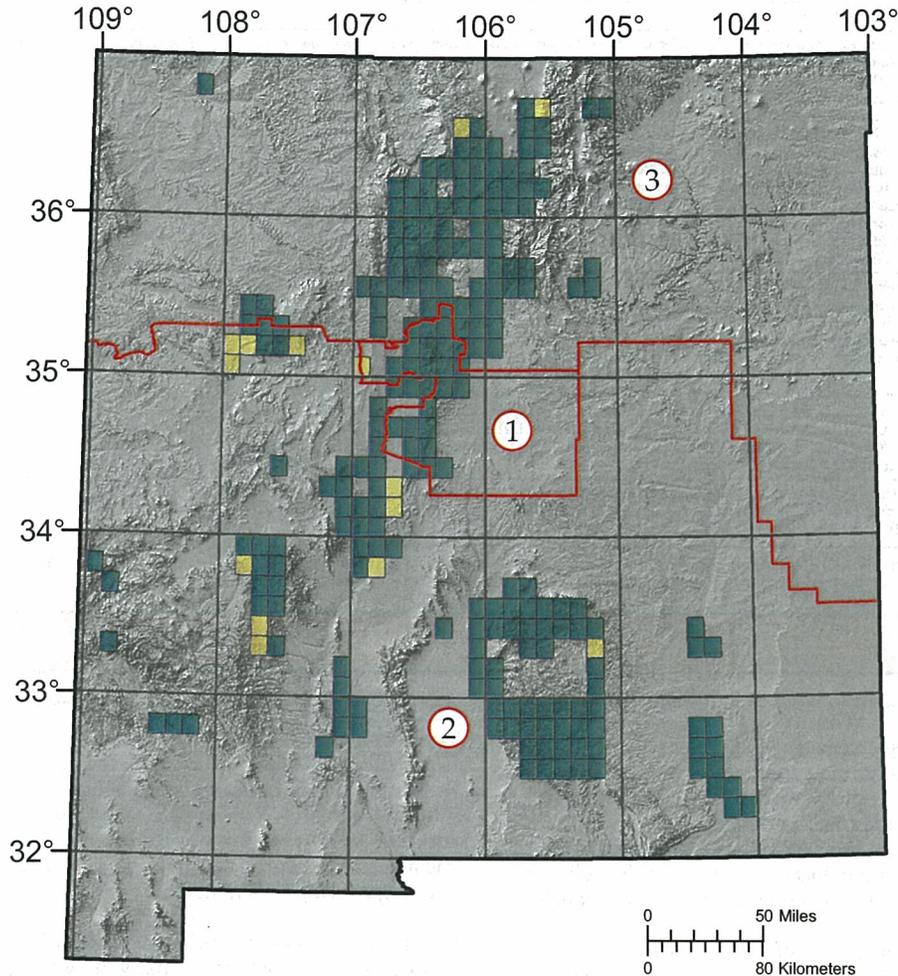


New Mexico



NMBGMR STATEMAP quads

- Mapping In Progress (2011-2012)
- Mapping Completed (1992-June 2011)
- 1 NM Congressional Districts



Contact Information

NEW MEXICO BUREAU OF GEOLOGY & MINERAL RESOURCES

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<http://geoinfo.nmt.edu>

NATIONAL COOPERATIVE GEOLOGIC MAPPING PROGRAM

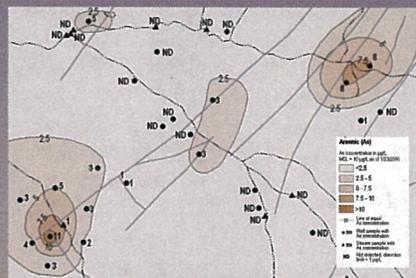
Program Coordinator: Peter T. Lyttle (703.648.6943)
 Associate Program Coordinators:
 Dr. Douglas A. Howard (703.648.6978)
 Linda L. Jacobsen (703.648.4335)

<http://ncgmp.usgs.gov>

The Aquifer Mapping Program addresses the state's critical need for information on the groundwater resources. "Aquifer mapping" is a scientific method that applies hydrogeologic techniques to assess the quantity, quality, and distribution of groundwater in aquifers. No other program in the state integrates the variety of scientific information (geologic, hydrologic, geophysical, and geochemical) with the objectivity and knowledge-base that the Aquifer Mapping Program possesses. New Mexico Tech's Bureau of Geology and Mineral Resources is the only non-regulatory state agency engaged in this specialized, multi-disciplinary science.

FUNDING NEEDS

- Current annual budget is \$200,000
- Six positions currently funded with \$300,000
- Four vacant/unfunded staff positions



GOOD RESOURCE MANAGEMENT REQUIRES GOOD SCIENCE AND COLLABORATION

- Geohydrologic mapping of aquifer materials
- Geophysical surveys
- Hydrologic and well databases
- Deep drill holes and 3-D geologic interpretation
- Water-level measurements and groundwater flow conditions
- Aquifer hydraulic properties
- Geochemical characterization
- Hydrologic modeling



PRODUCTS

1) STATE-OF-THE-ART MAPS OF SURFACE AND SUBSURFACE:

- Geologic maps
- Geophysical maps
- Geochemical maps

2) HYDROGEOLOGIC MODELS OF REGIONAL AQUIFERS:

- Depth-to-water
- Groundwater elevation changes over time
- Water quality assessment
- Groundwater flow directions
- Identification of recharge areas

3) SCIENTIFICALLY DEFENSIBLE PLANNING TOOLS:

- Publicly available data, reports, and maps
- Water quality and availability
- Baseline geologic and hydrologic information
- Drought planning and water management
- Identification of new water resources – saline aquifers and deep resources
- Impaired aquifer assessment

