



# New Mexico State University

## Civil and Geological Engineering Department

### Water Resources Program



#### What is important about water?

- Necessary for food production - Good quality water is scarce; Drought in parts of the world
- Necessary for urban use – Supply and sanitation
- Necessary for the environment
- Necessary for life



#### What do water resources engineers do?

- Design water supply systems:
  - ✓ Municipal
  - ✓ Irrigation
  - ✓ Other
- Design drainage systems:
  - ✓ Storm water
  - ✓ Agriculture
  - ✓ Water table control
- Evaluate hydrologic systems:
  - ✓ Surface water
  - ✓ Groundwater
  - ✓ Meteorology
- Habitat/environmental systems

#### Reasons to study water resources engineering

- Demand for water resources development world wide
- Environmental protection

#### Job opportunities

- Federal – U.S. Bureau of Reclamation (BOR), U.S. Environmental Protection Agency (EPA), U.S. Geological Survey (USGS), U.S. Department of Agriculture (USDA)
- State – New Mexico Office of State Engineer (OSE), New Mexico Energy Department (NMED), California, Arizona, and Texas Departments
- International - Consulting

#### Water Resources Engineering Undergraduate Program

The Civil Engineering undergraduate program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

#### Financial Support for Graduate Students

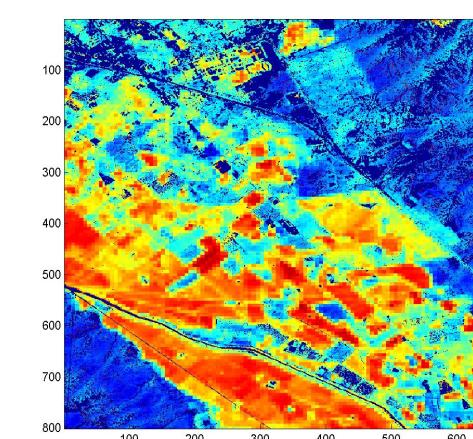
The graduate program offers opportunities in teaching and research assistantships in several fields and projects while pursuing your degree.

#### Current Research Projects



- Geographical Information System and Remote Sensing

Crop Water use in Mesilla Valley, 5/18/2003



➤ **Water Use and Conservation**



➤ **Agricultural Crops and Riparian Vegetation  
Evapotranspiration (ET)**



➤ **Lake/Reservoir Evaporation**



➤ **Canal Seepage  
Irrigation Efficiency**



- **River and Groundwater Modeling**
- **Chemistry of the Rio Grande**
- **Participation in the U.S.A New Mexico Student Alliance for Minority Participation (NM AMP)**



➤ **Energy Production from Biomass**



**Water Resources Faculty**

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