

NEW MEXICO WATER DIRECTORY
Where to get water information in New Mexico

New Mexico Water Resources Research Institute
New Mexico State University
Box 30001 MSC 3167
Las Cruces, NM 88003

WRRI Miscellaneous Report No. M14
Cynthia Griswold Rex, Editor
July 1999

Cover photos of the Rio Grande are courtesy of Danny R. Duran. The top photo is of Caballo Dam just before water was released for an irrigation season in the lower Rio Grande Valley. The bottom photo is of the Rio Grande just below Leasburg Dam at Fort Selden.

INTRODUCTION

The New Mexico Water Resources Research Institute (WRRI), authorized by the 1964 Water Resources Act, was formed in 1963 and was one of the first water research institutes approved in the United States. WRRI's overall mission is to develop and disseminate knowledge that will assist the state and nation in solving water problems. The institute funds research projects at the various colleges and universities within New Mexico, and provides water resources information to the citizens of the state and nation through conferences, technical reports, and general publications such as this directory.

The *New Mexico Water Directory* provides information about the many water resources agencies and researchers in New Mexico. It has been compiled to help individuals locate the best source of information to answer their water resources questions. Information contained in this directory also can be obtained through the Internet on WRRI's home page at <http://wrrri.nmsu.edu>. The heads of federal and state agencies, irrigation, acequia and professional organizations, and the major colleges and universities in New Mexico were contacted to obtain names of personnel with expertise in water resources who should be listed in the directory. However, it is inevitable that some sources were overlooked and for that we apologize.

I wish to thank the various individuals and agencies who provided information for this directory and for their positive comments about the usefulness of this document. I also wish to express my sincere appreciation to Ellie Maese Duran, Administrative Secretary for the WRRI, for her assistance and diligence in tracking down information and personnel. Her help was invaluable to me.

Cynthia Griswold Rex
Editor

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CHAPTER 1. FEDERAL AGENCIES

U.S. DEPARTMENT OF AGRICULTURE

❖ **Agricultural Research Service - Jornada Experimental Range**

Kris Havstad, Supervisory Scientist

New Mexico State University

Box 30003 MSC 3JER

Las Cruces, NM 88003

(505) 646-4842 FAX 646-5889 Internet: <http://www.ars.usda.gov>

The Jornada Experiment Range is located 23 miles north of Las Cruces on the Jornada del Muerto Plain and has the largest acreage of any Agricultural Research Service field station. Since 1912, research at the JER has focused on ecological processes in arid and semiarid rangeland environments. Cooperators include Agricultural Research Service scientists from other locations, New Mexico State University faculty, the U.S. Geological Survey, and the National Science Foundation.

Kris Havstad

agriculture, arid climates, biological control, conservation, ecosystems, range management

❖ **Farm Service Agency**

Larry K. Burnett, State Director

6200 Jefferson Street NE

Albuquerque, NM 87109

(505) 761-4900 FAX 761-4934 Internet: <http://www.fsa.usda.gov>

The FSA administers federal cost-sharing programs for soil and water conservation practices, and has local offices in every county in the state.

Scotty Abbott

agriculture, conservation, drought, earth dams, irrigation, irrigation systems, ponds, soil erosion, water quality, wetlands

❖ **Forest Service**

❖ **Rocky Mountain Research Station**

Deborah M. Finch, Project Leader

2205 Columbia Drive SE

Albuquerque, NM 87106

(505) 766-2384 FAX 766-1046 Internet: www.xmission.com/~rmrs

Dale G. Brockway

conservation, ecosystems, herbicides, plant growth, range management, soil chemistry, soil erosion, water chemistry, weeds

Deborah M. Finch

arid climates, conservation, ecosystems, land use, range management, riparian systems, wetlands, wildlife management

Roy Jemison

conservation, developing countries, ecosystems, hydrologic models, land-water interactions, rainfall-runoff process, soil erosion, soil-water relationships, streams, watershed management

❖ **Carson National Forest**

Leonard Lucero, Forest Supervisor

P.O. Box 558

112 Cruz Alta Road

Taos, NM 87571

(505) 758-6200 FAX 758-6213 Internet: <http://www.fs.fed.us/r3/carson>

Donald Case

biological control, cartography, decision models, drought, education, fertilizers, geomorphology, hazardous waste, hydraulic structures, landscape management, remote sensing, riparian vegetation, risk analysis, risk management, socioeconomic issues

Greg Miller

floodplain management, pollution control, riparian vegetation, soil erosion, soil-water relationships, water quality, water quality management, water quality monitoring, water quality standards, water rights

❖ **Gila National Forest**

Abel Camarena, Forest Supervisor

3005 E. Camino del Bosque

Silver City, NM 88061

(505) 388-8201 FAX 388-8204 Internet: <http://www.fs.fed.us/r3/gila>

Charles Souders

climate, conservation, ecosystems, plant-water relationships, riparian vegetation, soil chemistry, soil erosion, soil microbiology, soil physics, soil-water relationships

Mike Natharius

climate, conservation, ecosystems, riparian vegetation, soil chemistry, soil erosion, soil-water relationships, watershed management

Pete Stewart

floodplain management, pollution control, riparian vegetation, water quality, water resources development, water rights, watershed management

❖ **Lincoln National Forest**

Jose Martinez, Forest Supervisor

1101 New York Avenue

Alamogordo, NM 88310

(505) 434-7200 FAX 434-7218 Internet: <http://www.fs.fed.us>

Livia Crowley

computers, geochemistry, geographic information systems, geomorphology, groundwater hydrology, hydrogeology, karst hydrology, land-water interactions, pesticides, remote sensing, watershed management

Robert Dancker

land use, resource planning, riparian vegetation, soil erosion, water quality, water rights, watershed management

❖ **Santa Fe National Forest**

Leonard Atencio, Forest Supervisor

P.O. Box 1689

1474 Rodeo Road

Santa Fe, NM 87504

(505) 438-7840 FAX 438-7834 Internet: <http://www.fs.fed.us/r3/sfe>

Steve McWilliams

floodplain management, riparian vegetation, soil erosion, water quality, water resources development, water rights, watershed management

❖ **Natural Resources Conservation Service**

Rosendo Treviño III, State Conservationist

6200 Jefferson Street NE, Room 305
Albuquerque, NM 87109-3734
(505) 761-4400 FAX 761-4462 Internet: <http://www.nrcs.usda.gov>

The mission of the Natural Resources Conservation Service is to assist land users in conserving the soil, water and range resources on nonfederal lands. This effort includes water conservation, water quality, flood control and snow survey.

Greg Cunningham

channels, dams, flood control, groundwater hydrology, hydraulic structures, hydraulics, irrigation, ponds, soil erosion, water quality

Kenneth B. Leiting

fertilizers, nitrogen, nutrients, pesticides, phosphorus, range management

Daniel Murray

agriculture, conservation, floodplain management, hydraulics, hydrologic models, rainfall-runoff models, soil erosion, stormwater management, urban hydrology, wetlands

Ken Scheffe

cartography, geographic information systems, geomorphology, remote sensing, saline soils, salinity, snow, soil chemistry, soil microbiology, soil physics, soil-water relationships

Linda Scheffe

groundwater quality, water quality, water quality modeling, water quality standards

❖ **Rural Development**

Stephanie Gonzales, State Director

6200 Jefferson Street NE, Room 255
Albuquerque, NM 87109
(505) 761-4950 FAX 761-4976 Internet: <http://www.rurdev.usda.gov>
e-mail: sgonzale@rdmail.rural.usda.gov

Rural Development is a mission area of the United States Department of Agriculture which provides loans and grants to finance construction for business development, housing, public facilities, water and wastewater systems in rural communities. RD has 17 offices in New Mexico including the State Office located in Albuquerque.

Stephanie Gonzales

drilling, lagoons, leaching, sewer systems, wastewater, wastewater treatment, water quality, water treatment, water treatment facilities

U.S. DEPARTMENT OF THE ARMY

❖ **Army Corps of Engineers**

Lt. Col. Thomas N. Fallin, District Engineer

Albuquerque District Office
4101 Jefferson Plaza NE
Albuquerque, NM 87109-3435
(505) 342-3100 FAX 342-3199 Internet: <http://www.usace.army.mil>

The Corps operates seven major reservoirs in New Mexico. These reservoirs supply water and provide recreation in addition to their primary purpose of flood control. The Corps assists states, local communities, Native American entities, counties and other local government entities in solving their flood problems through cost-shared planning, design, and construction. They also assist with ecosystem restoration, bank stabilization, and toxic waste management. The Corps provides communities with technical assistance and floodplain management services. In addition, it regulates fills in wetlands under Section 404 of the 1974 Clean Water Act.

Roberta Ball

data storage and retrieval, hydrologic models, information dissemination, rainfall-runoff models, reservoir modeling

Mark C. Harberg

ecosystems, fish ecology, fisheries, geographic information systems, reservoir management, riparian vegetation

Dick Kreiner

dams, flood control, reservoir management, rivers

Dwayne E. Lillard

dams, drilling, earth dams, seismology

Andrew J. Rosenau

conservation, marshes, navigation, regulatory permits, shore protection, water quality management, wetlands

Kris Schafer

flood control, hydraulic structures, hydraulics, marketing, planning, water resources development, watershed management

Bill Spurgeon

boating, lakes, recreation, reservoir management, water quality

U.S. DEPARTMENT OF THE INTERIOR

❖ Bureau of Land Management

M. J. Chávez, State Director

New Mexico State Office

P.O. Box 27115

1474 Rodeo Road

Santa Fe, NM 87502-0115

(505) 438-7502 FAX 438-7452 Internet: <http://www.blm.gov>

The Bureau's responsibilities in water resources and watershed management cover the protection, maintenance and improvement of soil and water conditions on approximately 13 million acres of public land in New Mexico. Its water resources program includes inventories and investigations of surface and groundwater characteristics and problems, water rights, and the rehabilitation of watersheds having accelerated erosion and runoff problems. Water resources information is used for the multiple-use management of public land. BLM field offices are located in Albuquerque, Carlsbad, Farmington, Las Cruces and Roswell.

Mark Blakeslee

ecosystems, groundwater hydrology, hazardous waste, herbicides, land use, salinity, soil erosion, streams, water rights, watershed management

✦ **Albuquerque Field Office**

Edwin Singleton, Field Office Manager
435 Montañó Road NE
Albuquerque, NM 87107-4935
(505) 761-8700

Jerry Wall

earth dams, flood control, geographic information systems, geomorphology, hydrologic models, rainfall-runoff models, sedimentation, soil erosion, water rights, water use data

✦ **Carlsbad Field Office**

Gary Bowers, Senior Realty Specialist
620 E. Greene
Carlsbad, NM 88220
(505) 887-6544

Steve Daly

arid climates, biological control, drought, range management, watershed management

Jim Goodbar

karst hydrology, subsidence

Luis Florez

weeds

John Sherman

wetlands, wildlife management

✦ **Farmington Field Office**

Lee Otteni, Field Office Manager
1235 La Plata Highway, Suite A
Farmington, NM 87401
(505) 599-8900

Dale Wirth

range management, recreation, riparian vegetation, runoff, salinity, soil erosion, water quality monitoring, watershed management, weeds, wildlife management

✦ **Las Cruces Field Office**

Linda Rundell, Field Office Manager
1800 Marquess Street
Las Cruces, NM 88005
(505) 525-4300

Bruce Call

flood control, geographic information systems, range management, resource planning, riparian vegetation, soil erosion, water quality, water rights, water use data, watershed management

✦ **Roswell Field Office**

Edwin L. Roberson, Acting Field Office Manager
2909 W. Second Street
Roswell, NM 88201
(505) 627-0272

Jim Schroeder

floodplain management, geographic information systems, instream flow, range management, resource planning, soil erosion, water quality, water rights

❖ **Bureau of Reclamation**

Charles A. Calhoun, Regional Director

Upper Colorado Region
125 South State Street, Room 6107
Salt Lake City, UT 84138-1102
(801) 524-5592 FAX 524-3858 Internet: <http://www.usbr.gov>

Reclamation projects in New Mexico provide municipal, industrial and regional water supplies. These projects also provide New Mexico with hydroelectricity, flood control, water quality improvement, river regulation, fish and wildlife conservation and recreation. New Mexico projects encompass 12 storage dams and reservoirs and 522 miles of canals and pipelines.

Charles A. Calhoun

agriculture, earth dams, geographic information systems, hydropower, irrigation, resource planning, river basin development, sedimentation, water law, water rights

❖ **Albuquerque Area Office**

Michael R. Gabaldon, Area Manager

505 Marquette Avenue NW, Suite 1313
Albuquerque, NM 87102-2162
(505) 248-5357 FAX 248-5356

Michael R. Gabaldon

dams, ecosystems, floodplain management, institutional relationships, irrigation, reservoir management, resource planning, rivers, water resources development, watershed management

Jaci Gould

dams, hydrologic models, land-water interactions, reservoir management, reservoir modeling, water reuse

Rob Leutheuser

conjunctive use, hydrologic models, Indian water issues, institutional relationships, irrigation management, model studies, resource planning, river basin development, water resources development, watershed management

William Rohwer

dams, ecosystems, floodplain management, Indian water issues, institutional relationships, irrigation, reservoir management, resource planning, rivers, water resources development, watershed management

Marc Rucker

ecosystems, fisheries, pesticides, recreation, resource planning, riparian vegetation, water quality management, water resources development, wetlands, wildlife management

Arthur Valverde

dams, drainage, floodplain management, geomorphology, hydraulic structures, rivers, sedimentation, stochastic hydrology, suspended sediments, water resources development

❖ **Chama Field Division**

P.O. Box 426
Chama, NM 87520
(505) 756-2175 FAX 756-2543

Jeff Nettleton

channels, dams, drainage, flood control, hydraulic structures, irrigation systems, river beds, rivers, surface drainage, water quality

✦ **Elephant Butte Field Division**

Galan K. Hanson

HC 32 Box 312
Truth or Consequences, NM 87901-9802
(505) 894-6661

Galan K. Hanson

dams, energy use and conservation, flood control, hazardous waste, hydropower, land use, power plants, reservoir management, water quality, water rights

✦ **El Paso Field Division**

700 E. San Antonio Avenue, Room B318
El Paso, TX 79901-7020
(915) 534-6300

Bert Cortez

agriculture, conveyance systems, hydraulics, impoundments, open channels, resource planning, river beds, surface-groundwater relationships, water resources development

Wayne Treers

conveyance systems, evaporation, flood control, hydraulic structures, hydraulics, water demand, water levels, water quality, water resources development, water use data

✦ **Socorro Field Division**

P.O. Box VV
Socorro, NM 87801
(505) 835-1202

Jim Sizemore

channels, dams, drainage, flood control, hydraulic structures, irrigation systems, river beds, rivers, surface drainage, water quality

❖ **Fish and Wildlife Service**

Steve Cullinan, Chief, Water Resources

P.O. Box 1306
Albuquerque, NM 87103
(505) 248-7957 FAX 248-7950 Internet: <http://ifw2irm2.irm1.r2.fws.gov>

The Technical Service Branch of Water Resources of the U.S. Fish and Wildlife Service assists with the acquisition, management and protection of sufficient water rights for Fish and Wildlife Service facilities to accomplish resource management objectives, statutory responsibilities, and international treaty obligations. The Technical Service Branch is responsible for keeping an up-to-date inventory and maintenance of water rights records, documentation of historic use, and identification of future water rights needs. Applications for permits to appropriate water and to transfer water rights are filed. Documentation also is prepared to establish the Fish and Wildlife Service's water rights in state adjudications. Another area of responsibility for the Technical Service Branch is to provide hydrologic and water resources expertise to the Refuge Fisheries and Ecological Services program areas within the Fish and Wildlife Service. Staff from the Technical Service Branch conduct instream flow studies, hydrologic analyses of Fish and Wildlife Service water rights claims, surface and groundwater modeling, design and installation of water measurement systems, and river basin analyses of fish and wildlife needs.

Steve Cullinan

ecosystems, hydrogeology, hydrologic models, instream flow, riparian vegetation, rivers, surface-groundwater relationships, water law, water rights, water use monitoring, well hydraulics

Paul Tashjian

ecosystems, hydrogeology, hydrologic models, instream flow, riparian vegetation, rivers, surface-groundwater relationships, water law, water rights, water use monitoring, well hydraulics

✦ Bosque del Apache National Wildlife Refuge**Phil Norton, Manager**

P.O. Box 1246

Socorro, NM 87801

(505) 835-1828 FAX 835-0314 e-mail: R2RW_BDA@mail.fws.gov

Managed by the U.S. Fish and Wildlife Service, the Bosque del Apache NWR is an important link in the more than 500 refuges in North America. The goal of refuge management is to provide habitat and protection for migratory birds and endangered species, and provide the public with a high quality wildlife and educational experience. Management tools used on the refuge include farming, prescribed burning, exotic plant control, moist soil management, and water level manipulation. The refuge is located at the northern edge of the Chihuahuan desert, and straddles the Rio Grande approximately 20 miles south of Socorro, New Mexico. The heart of the refuge is 13,000 acres of historic flood plain and actively managed to create extensive wetlands, riparian forests and farmlands.

Gina E. Dello Russo

floodplain management, irrigation management, plant growth, resource planning, riparian vegetation, rivers, saline soils, sedimentation, water resources development, water use monitoring

John P. Taylor

agriculture, birds, data analysis, impoundments, marshes, riparian vegetation, saline soils, shore birds, wetlands, wildlife management

✦ New Mexico Ecological Services Field Office**Jennifer Fowler-Propst, Field Supervisor**

2105 Osuna Road NE

Albuquerque, NM 87113-1001

(505) 346-2525 FAX 346-2542 Internet: <http://ifw2es.fws.gov/newmexico>

The Ecological Services Field Office analyzes the impacts of water resources development projects on fish and wildlife resources and recommends measures to offset those impacts. The office also is responsible for Endangered Species Act compliance.

Dennis Coleman

endangered fish

Jennifer Fowler-Propst

bioindicators, biomonitoring, birds, conservation, fish ecology, instream flow, marshes, watershed management

Brian Hanson

dams, ecosystems, fish ecology, fisheries, floodplain management, instream flow, interbasin transfers, reservoir management, riparian vegetation

Joel Lusk

biotechnology, contaminant transport, data analysis, ecosystems, environmental sanitation, hazardous waste, isotopes, pesticides, water quality monitoring, water quality standards

Chris Nagano

endangered fish

Jeff Whitney

conflict management, ecosystems, flood control, floodplain management, hydrobiology, hydrologic models, landscape management, riparian vegetation, river basin development, rivers

R. Mark Wilson

bioindicators, biological control, biomonitoring, contaminant transport, ecosystems, fisheries, fungicides, heavy metals, herbicides, insecticides

❖ **Geological Survey, Water Resources Division**

Linda S. Weiss, District Chief

New Mexico District Office

5338 Montgomery Boulevard NE, Suite 400

Albuquerque, NM 87109-1311

(505) 830-7900 FAX 830-7998 Internet: <http://www.wdnmalb.cr.usgs.gov>

The Water Resources Division of the U.S. Geological Survey, New Mexico District, investigates the occurrence, quantity, quality, distribution, and movement of the state's water resources. The USGS also coordinates federal water-data acquisition activities within the state. All data collected are stored in the USGS national Water Storage and Retrieval System (WATSTORE) and are available on request. Real time and historical streamflow data, and locations at which other hydrologic data are available, can be obtained through the District's home page on the Internet. In addition to its district office in Albuquerque, the USGS has offices in Albuquerque, Carlsbad, and Las Cruces.

Scott Anderholm

geochemistry, groundwater movement, groundwater quality, groundwater recharge, isotopes, water quality

Roy R. Cruz

data storage and retrieval, groundwater hydrology, water levels

Rodger Ferreira

benthos, ecosystems, lakes, reservoir modeling, streams, water quality, zooplankton

Robert L. Gold

base flow, channels, drainage, fluid flow, hydraulics, hydrologic models, rivers, runoff, surface-groundwater relationships, urban drainage

Michael Roark

data storage and retrieval, geographic information systems, groundwater hydrology, groundwater modeling, groundwater movement, groundwater recharge, model studies, rivers, surface-groundwater relationships

Carole Thomas

evaporation, evapotranspiration, infiltration, statistics, streams

Linda S. Weiss

groundwater movement, hydraulics, hydrologic models

David Wilkins

drainage, energy budget, evapotranspiration, groundwater hydrology, groundwater movement, groundwater recharge, hydrogeology, surface-groundwater relationships

Dennis Woodward

aquifer characteristics, aquifer parameters, drilling, geophysics, groundwater hydrology, groundwater movement, hydrogeology, remote sensing, surface-groundwater relationships, water levels

❖ **Albuquerque Field Office**

David Ortiz, Field Office Chief

5338 Montgomery Boulevard NE, Suite 300

Albuquerque, NM 87109-1311

(505) 830-7907

David Ortiz

bacteria, base flow, drainage, hydraulic structures, open channels, rainfall, remote sensing, runoff, surface-groundwater relationships, urban drainage, urban hydrology, water quality

✦ **Carlsbad Field Office**

Glenn Todd, Field Office Chief

Federal Building, Room 101
Carlsbad, NM 88220
(505) 885-5939

Glenn Todd

bacteria, channels, data analysis, earth dams, mountain lakes/streams, rainfall, springs, water use monitoring

✦ **Las Cruces Field Office**

Louis C. Madrid, Field Office Chief

New Mexico State University
Genesis Center, Building A, Suite 110
Box 30001 MSC 3ARP
Las Cruces, NM 88003-8001
(505) 646-1335 FAX 646-7949

Rick Huff

brackish water, brines, geochemistry, groundwater hydrology, groundwater quality, ion exchange, isotopes, physical chemistry, solute transport, thermodynamics

Louis C. Madrid

channels, instream flow, open channels, river beds, rivers, streams

Edward Nickerson

aquifer characteristics, groundwater hydrology, groundwater movement, surface-groundwater relationships, water levels

Ron Ross

channels, data analysis, data storage and retrieval, instream flow, open channels, rainfall, river beds, rivers

U.S. ENVIRONMENTAL PROTECTION AGENCY

Linda McGlothlen, Chief, Information Management Section

Region 6 Library, 6MD-II

1445 Ross Avenue, Suite 1200

Dallas, TX 75202-2733

(214) 665-6424 or 665-6427 FAX 665-2714

e-mail: library-reg6@epamail.epa.gov Internet: <http://www.epa.gov/region06/6md/6lib.htm>

EPA is the federal agency responsible for safe drinking water regulations and the protection of groundwater and surface water resources. The library contains material on EPA programs including hazardous waste, pesticides, solid waste, toxic substances, water pollution and water quality. Library material particularly relates to the states in EPA Region 6—New Mexico, Texas, Oklahoma, Louisiana and Arkansas. The Online Library System (OLS) provides access to more than 136,000 books; 5,100 journal titles; 364,000 hard copy reports; and 3.2 million documents on microfilm and microfiche. A copy of the procedures to access OLS is available via modem on the Internet and also available to the public.

U.S. STATE DEPARTMENT

❖ **International Boundary and Water Commission, United States and Mexico**

John M. Bernal, U.S. Commissioner

4171 N. Mesa, Building C, Suite 310

El Paso, TX 79902-1441

(915) 832-4100 FAX 832-4190 Internet: <http://www.ibwc.state.gov>

e-mail: ibwc01@whc.com

The International Boundary and Water Commission, United States and Mexico, is a joint international commission charged with applying the provisions of United States and Mexico treaties pertaining to boundary and water issues. Specifically, the U.S. Section is involved with matters that affect the quantity and quality of water that is delivered to Mexico from the Rio Grande and Colorado River.

James M. Robinson, Jr.

data storage and retrieval, flood control, groundwater quality, hydraulics, hydropower, reservoir management, surface-groundwater relationships

CHAPTER 2. STATE AGENCIES

NEW MEXICO BUREAU OF MINES AND MINERAL RESOURCES

Charles E. Chapin, Director/State Geologist

801 Leroy Place

Socorro, NM 87801

(505) 835-5302 FAX 835-6333 Internet: <http://geoinfo.nmt.edu>

The bureau is the official state agency responsible for investigating and reporting on the geology and mineral resources of New Mexico.

Bruce Allen

climate, contaminant transport, drilling, geochemistry, geomorphology, heavy metals, lakes, saline soils, trace elements, water quality monitoring

Lynn Brandvold

geochemistry, heavy metals, pollution control, water chemistry, water quality, water quality monitoring

Ron Broadhead

aquifer characteristics, data storage and retrieval, energy use and conservation, oil-water interfaces, resource development, subsurface library

Charles E. Chapin

aquifer characteristics, geochemistry, groundwater quality, heavy metals, information dissemination, mineralogy, mining, sanitary landfills, trace elements, water quality

Sean D. Connell

arid climates, geomorphology, rivers, sedimentation, seismology, streams

Peggy Johnson

aquifer parameters, contaminant transport, geochemistry, groundwater hydrology, groundwater management, groundwater quality, groundwater recharge, hydrogeology, isotopes, surface-groundwater relationships

David W. Love

arid climates, floodplain management, geomorphology, glaciers, instream flow, river basin development, river beds, sedimentation, seismology

Marshall Reiter

geophysics, geothermal power, groundwater movement, hydrogeology, terrestrial heat flow

Mike Whitworth

brines, contaminant transport, desalination, groundwater quality, hydrogeology, membranes, osmosis, reverse osmosis, water chemistry, water quality modeling

NEW MEXICO DEPARTMENT OF AGRICULTURE

Frank A. DuBois, Director/Secretary

New Mexico State University

Box 30005 MSC 3189

Las Cruces, NM 88003

(505) 646-3007 FAX 646-8120 Internet: <http://nmdaweb.nmsu.edu>

The New Mexico Department of Agriculture is a producer-consumer service/regulatory department under the New Mexico State University Board of Regents with a director/secretary who serves on the governor's cabinet. It has responsibility for the regulation of more than 30 state laws and is the liaison for the agricultural industry with state government.

Wayne P. Cunningham

agriculture, chemigation, dairy waste management, dams, drainage, wastewater irrigation, water demand, water law, water resources development, water rights

Larry Dominguez

pesticides

Frank A. DuBois

agriculture, chemigation, fertilizers, groundwater quality, herbicides, insecticides, land use, pesticides, range management, wildlife management

David Lucero

agriculture, data analysis, economics, information dissemination, marketing, statistics

Jeff Witte

agriculture

Marsha Wright

groundwater hydrology, groundwater management, groundwater modeling, groundwater quality, pesticides

❖ **New Mexico Climate Center**

Ted Sammis, Director/State Climatologist

New Mexico State University

Box 30003 MSC 3Q

Las Cruces, NM 88003

(505) 646-2104 FAX 646-6041 Internet: <http://weather.nmsu.edu>

e-mail: tsammis@nmsu.edu or webmaster@weather.nmsu.edu

The purpose of the office of the state climatologist is to assist the state to understand and respond to natural and man-induced climate processes and their implications; to cooperate with the federal government in activities related to climate studies and advisory services; to promote and disseminate general knowledge of the climatology of New Mexico; and to establish a state climate program in accordance with the provisions of the federal National Climate Program Act.

Ted Sammis

climate, crop water use, evapotranspiration, irrigation

NEW MEXICO DEPARTMENT OF GAME AND FISH

Gerald A. Maracchini, Director

Andrew V. Sandoval, Chief, Conservation Services Division

Jack Kelly, Chief, Fisheries Division

P.O. Box 25112

Villagra Building

Santa Fe, NM 87504

(505) 827-7899 FAX 827-7915 Internet: <http://www.gmfsh.state.nm.us>

The New Mexico Department of Game and Fish collects water quality information relating to dissolved oxygen, pH, and water temperature for many of the waters where fish planting occurs. The Department also has fishery data on most of the state's waters. This information is available from the Santa Fe office as well as area offices located in Albuquerque, Las Cruces, Raton and Roswell.

Mike Hatch

benthos, bioindicators, biological control, biological treatment, decision models, fish ecology, fisheries, invertebrates, model studies, nutrients

Jack Kelly

ecosystems, fish ecology, fisheries, impoundments, lakes, model studies, reservoir management, reservoir modeling, water levels

John Pittenger

ecosystems, fish ecology, geomorphology, instream flow, riparian vegetation, rivers, streams, water quality, watershed management, wetlands

David Propst

benthos, biodegradation, ecosystems, fish ecology, fisheries, hydropower, impoundments, interbasin transfers, mountain lakes/streams, rivers

Andrew V. Sandoval

aquatic plants, birds, conservation, ecosystems, fish ecology, fisheries, geographic information systems, instream flow, lakes

❖ **Northeast Operations Division**

Marti Niman, Public Affairs Officer

P.O. Box 1145

215 York Canyon Road

Raton, NM 87740

(505) 445-2311 FAX 445-5651 e-mail: MNiman@gmfsh.state.nm.us

Marti Niman

arid climates, birds, conservation, ecosystems, education, information dissemination, recreation, wetlands, wildlife management

❖ **Northwest Operations Division**

Paul Cassidy, Area Fisheries Manager

3841 Midway Place NE

Albuquerque, NM 87109

(505) 841-8881 FAX 841-8885

Paul Cassidy

aquaculture, fish ecology, fisheries, ponds, reservoir management, rivers, streams, wildlife management

❖ **Southeast Operations Division**

Miles A. McInnis, Area Fisheries Manager

1912 W. Second Street

Roswell, NM 88201

(505) 624-6135

Miles A. McInnis

lakes, mountain lakes/streams, ponds, rivers, streams

❖ **Southwest Operations Division**

Ernest Jaquez, Area Fisheries Manager

566 N. Telshor Boulevard

Las Cruces, NM 88011

(505) 522-9796

Ernest Jaquez

ecosystems, fish ecology, fisheries, impoundments, mountain lakes/streams, reservoir management

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Jennifer A. Salisbury, Secretary

2040 S. Pacheco Street

Santa Fe, NM 87505

(505) 827-5950

FAX 827-1150

Internet: <http://www.emnrd.state.nm.us>

The Energy, Minerals and Natural Resources Department has several organizational units which directly impact water resources. The Department focuses on a variety of water issues ranging from protecting water-based habitat for endangered species to using water for recreational or developmental purposes. Water-related divisions are described below.

❖ Forestry Division

Toby Martinez, State Forester

408 Galisteo Street

Santa Fe, NM 87501

(505) 827-5832

FAX 827-3903

Internet: <http://www.emnrd.state.nm.us/forestry>

The Forestry Division addresses water issues in several ways. First, it works with soil and water conservation districts throughout the state in developing conservation projects, most of which impact water. Second, it monitors timber harvest to minimize erosion in order to protect water quality. The Division works closely with the New Mexico Water Quality Control Commission to implement best management practices for reducing nonpoint source pollution.

Tony Delfin

conservation, distribution systems, ecosystems, land use, multiple-objective planning, plant growth, regulatory permits, resource planning, riparian vegetation, watershed management

Toby Martinez

agriculture, ecosystems, energy use and conservation, flood control, landscape management, policy analysis, resource development, urban planning, water quality monitoring, water quality standards

❖ Mining and Minerals Division

Kathleen A. Garland, Director

2040 S. Pacheco Street

Santa Fe, NM 87505

(505) 827-5970

Internet: <http://www.emnrd.state.nm.us/mining>

The Mining and Minerals Division addresses water issues that arise from current and past mining practices. Hydrologic impacts of surface coal mines are modeled to determine if long-term problems will remain. The Abandoned Mine Land Program remedies water contamination from mines abandoned long ago. The Mining Act Reclamation Program works in concert with environmental agencies to reclaim active mines so that long-term water impacts will not take place.

Monte Anderson

aquifer characteristics, computers, geomorphology, groundwater quality, hydrogeology, regulatory permits, runoff, soil erosion, water chemistry, water quality

Robert Evetts

groundwater quality, mountain lakes/streams, subsidence, wastewater treatment, water demand, water quality, water resources development, water treatment, water treatment facilities

Kathleen A. Garland

geochemistry, geology, mining, policy analysis, regulatory permits

❖ Oil Conservation Division

Lori Wrotenbery, Director

2040 S. Pacheco Street

Santa Fe, NM 87505

(505) 827-7132 Internet: <http://www.emnrd.state.nm.us/ocd>

The Oil Conservation Division is responsible for the protection of drinking water from the potentially harmful effects of oil and gas drilling and production operations. It regulates the injection of fluids for the secondary enhanced recovery of oil, underground storage of natural gas, and the disposition of salt water produced in conjunction with oil and gas. The OCD also regulates the drilling and production of geothermal resources on private and state lands.

David Catanach

aquifer characteristics, brines, conservation, drilling, fluid flow, fluid mechanics, regulatory permits, risk management, waste disposal, well hydraulics

Bill Olson

aquifer characteristics, contaminant transport, fluid flow, groundwater hydrology, groundwater quality, hydrogeology, regulatory permits, waste disposal, water quality, water quality monitoring

Lori Wrotenbery

aquifer characteristics, drilling, energy use and conservation, fluid flow, groundwater movement, groundwater quality, hydrogeology, regulatory permits, surface-groundwater relationships, well hydraulics

❖ State Park Division

Tom Trujillo, Director

2040 S. Pacheco Street

Santa Fe, NM 87505

(505) 827-5975 FAX 827-1376 Internet: <http://www.emnrd.state.nm.us/nmparks>

The State Park Division operates 31 state parks that have recreational lakes. Other parks are adjacent to quality fishing areas. Maintaining water quality is essential to attract visitors to these parks. The Division also is beginning to use wetlands for wastewater treatment purposes.

Robert M. Findling

boating, instream flow, lakes, landscape management, marinas, recreation, reservoir management, resource planning, rivers, wetlands

Dave Johnson

ecosystems, land use, ponds, recreation, resource planning, riparian vegetation, water quality control, water quality standards, wetlands, wildlife management

NEW MEXICO ENVIRONMENT DEPARTMENT

Peter Maggiore, Secretary

P.O. Box 26110

1190 St. Francis Drive

Santa Fe, NM 87502-6110

(505) 827-2850 FAX 827-2836 Internet: <http://www.nmenv.state.nm.us>

e-mail: Peter_Maggiore@nmenv.state.nm.us

The New Mexico Environment Department is responsible for preserving and protecting New Mexico's environment for present and future generations. Under that mandate, NMED collects information on surface and groundwater quality, community water supplies, and municipal and industrial effluent quality. NMED also maintains files for self-monitored data on discharges regulated under the federal NPDES

permit system and state groundwater regulations. In addition, NMED has access to water quality information in STORET, the U.S. Environmental Protection Agency's computerized information retrieval system.

❖ **Groundwater Quality Bureau**

Marcy Leavitt, Bureau Chief

P.O. Box 26110
1190 St. Francis Drive
Santa Fe, NM 87502-6110
(505) 827-2918 FAX 827-2965

Dale Doremus

dairy waste management, groundwater hydrology, groundwater quality, hydrogeology, lagoons, leaching, mining, pollution control, regulatory permits, septic tanks, water quality control, water quality standards, water treatment

Maura Hanning

contaminant transport, geochemistry, groundwater hydrology, hazardous waste, hydrogeology, mining, organic compounds, pollutants, risk analysis, toxic substances, water quality

Marcy Leavitt

groundwater management, pollution control, regulatory permits, wastewater, water quality, water quality control, water quality management, water quality monitoring, water quality standards

Dennis McQuillan

biodegradation, contaminant transport, geochemistry, groundwater quality, hydrogeology, organic compounds, pollutants, toxic substances, water quality, water quality monitoring

❖ **Surface Water Quality Bureau**

James H. Davis, Bureau Chief

P.O. Box 26110
1190 St. Francis Drive
Santa Fe, NM 87502-6110
(505) 827-0187 FAX 827-0160

James H. Davis

ecosystems, hydrobiology, lakes, nonpoint source pollution, pollutants, pollution control, regulatory permits, riparian vegetation, rivers, streams, water law, water quality, water quality management, water quality standards, watershed management, wetlands

Melanie Deason

education, lakes, marshes, planning, ponds, riparian vegetation, rivers, springs, streams, wetlands

Don Ditmore

computers, data analysis, data storage and retrieval, geographic information systems, mountain lakes/streams, rivers, streams, water quality modeling

Erik Galloway

geographic information systems, information dissemination, planning, water quality, wetlands

Pat Hanson

activated sludge, aeration, anaerobic treatment, biological treatment, chlorination, conveyance systems, distribution systems, education, environmental sanitation, wastewater

Peter Monahan

geomorphology, pollution control, riparian vegetation, rivers, runoff, stormwater management, water quality, water quality control, water quality management, water quality monitoring, watershed management

Steve Pierce

benthos, computers, data analysis, data storage and retrieval, heavy metals, Indian water issues, lakes, mountain lakes/streams, pollution control, rivers, streams, toxic substances, water quality, water quality monitoring, water quality standards

Glenn Saums

biomonitoring, environmental sanitation, industrial wastewater, pollution control, regulatory permits, sludge, stormwater management, wastewater, water law, water quality, water quality control, water quality standards, water treatment

❖ **Underground Storage Tank Bureau**

J. David Duran, Bureau Chief

P.O. Box 26110

1190 St. Francis Drive

Santa Fe, NM 87502-6110

(505) 827-2932 FAX 827-0310 Internet: <http://www.nmenv.state.nm.us/ust/ustbtop.html>

Anna M. Richards

geographic information systems, regulations, underground storage tanks

❖ **NMED District I Office**

Bill Bartels, District Manager

4131 Montgomery Boulevard NE

Albuquerque, NM 87109

(505) 841-9450

Joe Herrera

groundwater movement, groundwater quality, health effects, heavy metals, isotopes, photosynthesis, pollutants, synthetic organics, underground storage tanks, water chemistry

Jerome K. Lewis

chlorination, disinfection, environmental sanitation, groundwater quality, organic compounds, springs, synthetic organics, water quality monitoring, water quality standards

❖ **NMED District II Office**

James Bearzi, District Manager

525 Camino de los Marquez, Suite 4

Santa Fe, NM 87502

(505) 476-8531 FAX 476-8541

James Bearzi

environmental management, geomorphology, groundwater hydrology, hydrogeology, planning, rivers, streams, underground storage tanks, water quality

❖ **NMED District III Office**

Ken Smith, District Manager

1001 N. Solano Drive

Las Cruces, NM 88001

(505) 524-6300 FAX 526-3891

Frank Fiore

environmental sanitation, hazardous waste, septic tanks, waste disposal, wastewater, wastewater treatment, water quality, water quality standards

Ken Smith

environmental sanitation, hazardous waste, septic tanks, waste disposal, wastewater, wastewater treatment, water quality, water quality standards

❖ **NMED District IV Office**

Garrison McCaslin, District Manager

1914 W. Second Street
Roswell, NM 88201
(505) 624-6046 FAX 624-2023

Ronald Carson

septic tanks

Garrison McCaslin

biodegradation, biological treatment, conservation, education and outreach, evapotranspiration, marshes, septic tanks, wetlands

NEW MEXICO INTERSTATE STREAM COMMISSION

Thomas C. Turney, Secretary

P.O. Box 25102
407 Galisteo Street (87501)
Santa Fe, NM 87504-5102
(505) 827-6160 FAX 827-6188 Internet: <http://www.seo.state.nm.us>

The nine-member Interstate Stream Commission is delegated broad general powers in the protection, conservation and development of the waters and stream systems of New Mexico, both interstate and intrastate. The Commission is authorized to negotiate compacts with other states to settle interstate controversies or to enter into other negotiations leading to the equitable division and distribution of water in the interstate stream system, and also participates in all interstate litigation involving disputes between states. The Commission also has responsibility for programming, budgeting and directing expenditures from certain trust funds and from funds appropriated to the Commission by the state legislature. Those programs include irrigation, construction, conservation and research projects and regional water planning. Interstate Stream Commissioners are Richard P. Cheney (Chair), Hal E. Engle (Vice Chair), Thomas C. Turney (Secretary), Palemon A. Martinez, Hoyt Pattison, John Bulsterbaum, Narendra Gunaji, Harold Houghtaling, Jr. and Philip R. Grant.

Mary Helen Follingstad

land use, landscape management, land-water interactions, multiple-objective planning, planning, policy analysis, socioeconomic issues, urban planning, zoning

Norman Gaume

aquifer characteristics, conservation, decision models, groundwater management, statistics, surface-groundwater relationships, urban water systems, wastewater, water quality, water resources development

NEW MEXICO OFFICE OF THE STATE ENGINEER

Thomas C. Turney, Secretary

P.O. Box 25102
407 Galisteo Street (87501)
Santa Fe, NM 87504-5102
(505) 827-6091 FAX 827-6188 Internet: <http://www.seo.state.nm.us>

The state engineer is charged with the general supervision, measurement, appropriation and distribution of New Mexico's water in accordance with the laws of the state. Information is available from the Office of the State Engineer in Santa Fe as well as district offices in Albuquerque, Aztec, Deming, Las Cruces and Roswell. Publications include booklets on acequia associations, water conservation and adjudications.

Ted Apodaca

Indian water issues, water law, water rights

Alice Darilek

conservation, drought, education, energy use and conservation, information dissemination, irrigation management, landscape management, policy analysis, resource planning, water harvesting, water reuse, water use efficiency

Linda I. Gordan

arid climates, drought, earth dams, groundwater management, hydrologic models, interbasin transfers, plant-water relationships, policy analysis, ponds, regulatory permits, streams, surface-groundwater relationships, wastewater irrigation, water law, water rights

Nancy Knouse

computers, data storage and retrieval, geographic information systems

Donald T. Lopez

dams, floodplain management

Tom Morrison

aquifer characteristics, groundwater hydrology, groundwater modeling, groundwater movement, groundwater recharge, hydrogeology, well hydraulics

Paul Saavedra

dams, drilling, earth dams, water law, water rights, water use monitoring

❖ **OSE District I Office**

John R. D'Antonio, Jr., District Supervisor

121 Tijeras Avenue NE, Suite 2000
Albuquerque, NM 87102
(505) 841-9480 FAX 841-9485

John R. D'Antonio, Jr.

groundwater management, hydraulic structures, hydraulics, regulatory permits, water law, water levels, water resources development, water rights, water use data

❖ **OSE District II Office**

Art Mason, District Supervisor

1900 W. Second Street
Roswell, NM 88201
(505) 622-6521 FAX 623-8559

Frank Bradley

groundwater hydrology, water demand, water law, water levels, water quality, water resources development, water reuse, water rights, water use data, water use monitoring

Kenneth Fresquez

drilling, groundwater hydrology, groundwater management, groundwater modeling, groundwater movement, groundwater quality, hydrogeology, water law, water levels, water rights

Johnny R. Hernandez

water levels, water rights, water use data

Craig Hipple

aquifer characteristics, groundwater hydrology, groundwater management, irrigation, surface-groundwater relationships, water law, water levels, water rights, water use data, water use monitoring

Art Mason

drilling, groundwater management, groundwater movement, interbasin transfers, regulatory permits, water rights

❖ **OSE District III Office**

Robert Q. Rogers, District Supervisor

P.O. Box 844
216 S. Silver
Deming, NM 88031
(505) 546-2851 FAX 546-2290

Robert Q. Rogers

drilling, groundwater management, interbasin transfers, regulatory permits, surface-groundwater relationships, water rights

❖ **OSE District IV Office**

Calvin Chavez, District Supervisor

133 Wyatt Drive, Suite 3
Las Cruces, NM 88005
(505) 524-6161 FAX 524-6160

Calvin Chavez

evaporation, groundwater management, hydrogeology, interbasin transfers, surface-groundwater relationships, water law, water levels, water resources development, water rights, water use data

❖ **OSE Aztec Sub-Office**

Robert E. Oxford, Water Resource Engineer Specialist

100 S. Oliver Drive, Suite 100
Aztec, NM 87410
(505) 334-9481

Robert E. Oxford

dams, drainage, water law, water resources development, water rights

NEW MEXICO WATER QUALITY CONTROL COMMISSION

P.O. Box 26110
1190 St. Francis Drive
Santa Fe, NM 87502-6110
(505) 827-2824 FAX 827-2836

The New Mexico Water Quality Control Commission is the official water pollution control agency for the state. It adopts water quality standards and promulgates regulations to prevent or abate water pollution. The Commission is attached administratively to the New Mexico Environment Department (NMED), meaning that the budgets and reports the Commission releases are issued through NMED and administrative and clerical support are provided by that agency, although the Commission acts independently of the Department. The Water Quality Control Commission is composed of three members-at-large who are appointed by the Governor and the heads or designees of the following departments: Environment Department, Office of the State Engineer, Oil Conservation Division, State Park Division, Department of Agriculture, Department of Game and Fish, Soil and Water Conservation Commission and the Bureau of Mines and Mineral Resources. Current members are listed below.

Peter Maggiore, Secretary
Environment Department
Designee: **Ed Kelley**

Thomas C. Turney, State Engineer
Office of the State Engineer

Lori Wrotenbery, Director
Oil Conservation Division
Designee: **Bill Olson**

Tom Trujillo, Director
State Park Division
Designee: **Dave Johnson**

Frank A. DuBois, Director
Department of Agriculture
Designee: **Ricardo Rel**

Gerald A. Maracchini, Director
Department of Game and Fish
Designee: **Andrew V. Sandoval**

Ray Polasky, Bureau Chief
Soil and Water Conservation Commission
Designee: **Howard Hutchinson**

Charles E. Chapin, Director and State Geologist
Bureau of Mines and Mineral Resources
Designee: **Lynn Brandvold**

Alberto A. Gutierrez, Member-at-Large
Paul Gutierrez, Member-at-Large
Irene Juliana Lee, Member-at-Large

CHAPTER 3. ACEQUIA ASSOCIATIONS AND IRRIGATION AND CONSERVANCY DISTRICTS

ACEQUIA ASSOCIATIONS

It is estimated there are over 1,000 community acequia organizations in New Mexico. The New Mexico Office of the State Engineer gathered information on 721 of these when that office's technical division compiled *Surface Water Irrigation Organizations in New Mexico* (1987). There also are a number of regional and statewide acequia organizations; the main two are listed below.

NEW MEXICO ACEQUIA ASSOCIATION

Antonio Medina, Interim President
Kay Matthews, Secretary
4000 8th Street, Box 5
Las Vegas, NM 87701
(505) 698-2290

The New Mexico Acequia Association is a statewide membership organization dedicated to advocacy and capacity building to preserve the acequia system of New Mexico. The organization also publishes a quarterly newsletter to members entitled *Acéquia*.

NEW MEXICO ACEQUIA COMMISSION

The Acequia Commission was created in 1988 by Governor Garrey Carruthers. Members are appointed by the governor. The Commission's functions include advising the governor, Interstate Stream Commission, and the U.S. Army Corps of Engineers on developing criteria for acequia rehabilitation priorities; serving as facilitator for communication among local acequia organizations and the state and federal governments; and reviewing any plans or legislation affecting New Mexico acequias. Current commission members are listed below:

Henry Abeyta
P.O. Box 395
Española, NM 87532

Orlando Montes, Secretary
1317 Lujan Street
Santa Fe, NM 87505

Jim Dunlap
740 Highway 170
Farmington, NM 87401

Betty Shrecengost
Box 68
Lincoln, NM 88338

Gilbert Gallegos
P.O. Box 307
Ribera, NM 87560

Raymond Sisneros
P.O. Box 875
Cuba, NM 87013

Wayne M. Gallegos
P.O. Box 17
Amalia, NM 87512

John C. York
P.O. Box 130
Mimbres, NM 88049

Wilfred Gutierrez, Chairman
P.O. Box 190
Velarde, NM 87582

IRRIGATION AND CONSERVANCY DISTRICTS

Irrigation and conservancy districts are organizations formed to distribute and conserve the water rights of member users. Because New Mexico has numerous irrigation and conservancy districts, only the larger districts are listed here.

ARCH HURLEY CONSERVANCY DISTRICT

Harold Horlacher, Sr., Interim Manager
P.O. Box 1167
Tucumcari, NM 88401
(505) 461-2351

CARLSBAD IRRIGATION DISTRICT

Tom W. Davis, Manager
201 S. Canal Street
Carlsbad, NM 88220
(505) 885-3203 FAX 887-2348 e-mail: cid@friendly.carlsbadnm.com

ELEPHANT BUTTE IRRIGATION DISTRICT

Gary Esslinger, Treasurer/Manager
P.O. Drawer 1509
Las Cruces, NM 88004
(505) 526-6671 FAX 523-9666 e-mail: gesslinger@ebid-nm.org

FORT SUMNER IRRIGATION DISTRICT

Leslie Armstrong, President
P.O. Box 374
Fort Sumner, NM 88119
(505) 355-2630

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

Subhas K. Shah, Chief Executive Officer
P.O. Box 581
Albuquerque, NM 87103
(505) 243-6796 FAX 243-7308 e-mail: shah@rt66.com

CHAPTER 4. WATER AND PROFESSIONAL ORGANIZATIONS

This section provides a selected list of professional organizations whose membership can provide services in various water resources fields. The membership directory of most of these organizations is available on request.

AMERICAN CONSULTING ENGINEERS COUNCIL OF NEW MEXICO

Ann Nelson, Executive Director
1615 University Boulevard NE
Albuquerque, NM 87102
(505) 843-6221

Membership consists of consulting engineering firms. The Council publishes an annual directory of engineering services that is available to the public at no charge.

AMERICAN SOCIETY OF CIVIL ENGINEERS

New Mexico Section
Chris Youngblood, Executive Secretary/Treasurer
5639 Jefferson Street NE
Albuquerque, NM 87109
(505) 344-4080 FAX 343-8759

ASCE's objective is the advancement of the science and profession of engineering to enhance the welfare of humanity. The New Mexico Section of ASCE has a voluntary Board of Direction and over 750 members who practice in government, industry, and academia.

AMERICAN WATER RESOURCES ASSOCIATION

New Mexico Section
Jeffrey Peterson, President
P.O. Box 1852
Albuquerque, NM 87103
(505) 924-3668 FAX 924-3684

AWRA provides a focal point for the collection, organization and dissemination of ideas and information in the physical, biological, economic, social, political, legal and engineering aspects of water-related problems. The New Mexico Section of AWRA provides an essential forum for communication among disciplines with a common interest in water quantity, quality, use, development and conservation.

AMERICAN WATER WORKS ASSOCIATION

Rocky Mountain Section
Lee Cesario, Chair
Denver Water
1600 W. 12th Avenue
Denver, CO 80254
(303) 628-6561

Most municipalities are represented by AWWA members. The Association publishes standards for water works equipment and facilities. A majority of the 1,738 members of the Rocky Mountain Section are in the water industry, while others represent consulting firms, manufacturing and supply industries.

CITY OF ALBUQUERQUE WATER CONSERVATION OFFICE

Jean Witherspoon, Water Conservation Officer

Public Works Department

City of Albuquerque

P.O. Box 1293

Albuquerque, NM 87103

(505) 768-3655 FAX 768-3629 Internet: <http://www.cabq.gov/resources/contact.html>

e-mail: jasw@cabq.gov

The City of Albuquerque adopted a comprehensive water conservation strategy in 1995 with the goal of reducing per person water use by 30 percent, from 250 gallons per person per day to 175 gallons per person per day by 2004. Reaching this goal means saving billions of gallons per day, helping to balance depletion and recharge.

CITY OF LAS CRUCES WATER RESOURCES DEPARTMENT

William McKinney, Director

Public Utilities Division

P.O. Box 20000

Las Cruces, NM 88004

(505) 528-3515 FAX 528-3513 Internet: <http://www.pio.ci.las-cruces.nm.us/utility.htm#Water>

e-mail: bill.mckinney@las-cruces.org

The City of Las Cruces' water conservation program began approximately 20 years ago with the implementation of inclining block rates for water charge customers higher rates for higher amounts of water used. In July 1996, as part of a cost of service study, the block rates for water were much more steeply inclined. This prompted a drop in per capita water use that continues today. The City adopted its Water Conservation Ordinance in October 1996. Learning to be Water Wise is a pilot program used in the Las Cruces public schools which is funded through a cooperative agreement with the Bureau of Reclamation. The program included kits with water conserving devices that students take home and install. Household water use is measured by the students before and after installation of the devices which will be reported at the conclusion of the program.

CITY OF ROSWELL WATER AND WASTEWATER LABORATORY

Gary Beatty, City Chemist

P.O. Drawer 1838

2306 East College

Roswell, NM 88201

(505) 624-6752 FAX 624-6940 e-mail: waterlab@rt66.com

The Water and Wastewater Laboratory is certified for microbiological testing MMO/MUG-P/A. The Laboratory also runs analytic tests for desalinization of brackish water, inorganics analysis and dairy monitoring analysis.

INTERHEMISPHERIC RESOURCE CENTER

P.O. Box 2178

Silver City, NM 88062-2178

(505) 388-0208 FAX 388-0619 Internet: <http://www.irc-online.org>

Founded in 1979, the Interhemispheric Resource Center promotes grassroots involvement to ensure that the United States becomes a responsible global leader and partner. IRC is recognized for its ability to bridge the gap between academic research and popular education, and between the policy community and activists. The IRC's U.S.-Mexico Borderlands Program seeks to provide information and analysis regarding

the globalization process along the U.S.-Mexico border. *Borderlines* is the Program's primary publication, consisting of a monthly print edition focusing on one specific border topic.

NATIONAL WATER RESOURCES ASSOCIATION

Wayne P. Cunningham, President

3800 N. Fairfax Drive, Suite 4

Arlington, VA 22203

(703) 524-1544

FAX 524-1548

Internet: <http://www.nwra.org>

e-mail: nwra@erols.com

NWRA is a nonprofit federation of state organizations whose membership includes rural water districts, municipal water entities, commercial companies and individuals. The Association is concerned with the appropriate management, conservation, and use of water and land resources on a national scope. NWRA works to balance the needs of people and the environment, and has worked closely with Congress and the Executive Branch for more than 50 years, establishing positive relationships with key resource management agencies and departments.

NEW MEXICO ACADEMY OF SCIENCE

Kurt S. Anderson, President

c/o New Mexico Museum of Natural History

1801 Mountain Road NW

Albuquerque, NM 87104

(505) 841-2840

FAX 841-2866

Internet: <http://www.nmas.org>

e-mail: nmas@nmas.org

The goals of the New Mexico Academy of Science are to promote science and science education within the state of New Mexico; improve communication among scientists, science educators, and the New Mexico general public and its governmental representatives; recognize scientists, science educators, and science students; and encourage scientific research and increase public awareness of science's role in human progress and welfare. NMAS sponsors and administers several programs to accomplish its goals. These projects include the Visiting Scientist Program, Junior Academy of Science, Outstanding Teacher Award Program, and the annual *Journal of Science*.

NEW MEXICO GEOGRAPHIC INFORMATION COUNCIL, INC.

David McCraw, President

c/o Earth Data Analysis Center

University of New Mexico

Albuquerque, NM 87131-6031

(505) 277-3622 ext. 231

FAX 277-3614

Internet: <http://www.state.nm.us/nmgic>

e-mail: edac@spock.unm.edu

NMGIC was initiated by people from throughout New Mexico who were concerned with development and assessment of geographic information for New Mexico. It was incorporated as a nonprofit organization in November 1989, and is managed by an elected nine-member Board of Directors. NMGIC is composed of five committees that respond to issues important to geographic information in New Mexico. Those committees are: Geographic Names; Geographic Positioning Systems; Geographic Information Systems; Local Government Land Records; and State Mapping Advisory.

NEW MEXICO GEOLOGICAL SOCIETY

Gary A. Smith, President

c/o New Mexico Bureau of Mines and Mineral Resources

801 Leroy Place

Socorro, NM 87801

(505) 835-5410 FAX 835-6333 Internet: <http://geoinfo.nmt.edu/nmgs/home.html>

The New Mexico Geological Society promotes interest in geology and associated sciences, fosters scientific research and publications, and stimulates interest in New Mexico geology. NMGS produces annual guidebooks and maps plus other special publications concerning the geology of New Mexico, and hosts annual fall field conferences held in different locations in New Mexico and adjoining states. Its more than 600 members are primarily geologists and hydrologists in government, industry and academia. The Society provides approximately \$12,000 annually in scholarships to students investigating the geology of New Mexico.

NEW MEXICO RESOURCE GEOGRAPHIC INFORMATION SYSTEM

c/o Earth Data Analysis Center

University of New Mexico

Bandelier West, Room 111

Albuquerque, NM 87131-6031

(505) 277-3622, ext. 231 FAX 277-3614 Internet: <http://rgis.unm.edu>

e-mail: edac@spock.unm.edu

The New Mexico Resource Geographic Information System (RGIS) is a cooperative program between the University of New Mexico and the State of New Mexico General Services Department. Representatives from three UNM Public Service and Research Units comprise the RGIS team and manage the program. Program components include a clearinghouse, database development, technical support, training, geographic information coordination, and project support for state agencies and local government. The program seeks to advance applications of geographic information system technology within New Mexico state agencies, local government and private industry. RGIS is a focal point and clearinghouse for spatial geographic information and related technologies in New Mexico.

NEW MEXICO SOCIETY OF PROFESSIONAL ENGINEERS

Ann Nelson, Executive Director

1615 University Boulevard NE

Albuquerque, NM 87102

(505) 247-9181

The 550-member society is part of the National Society of Professional Engineers and includes engineers in all disciplines concerned with the engineering profession. The Society publishes a monthly newsletter entitled *New Mexico Professional Engineer*.

NEW MEXICO WATER & WASTEWATER ASSOCIATION

Caroline Martinez, Executive Manager

P.O. Box 819

Española, NM 87532

(505) 753-8840 FAX 753-9810

NMWWA provides training for utility operators throughout New Mexico. The Association promotes proper design, construction, operation, performance, evaluation, and management of water and wastewater utilities in New Mexico. Tuition scholarships are offered to qualified applicants who enter a New Mexico training institution in the field of water and wastewater utilities design, operation or management.

Caroline Martinez

education, groundwater quality, information dissemination, plant-water relationships, pollution control, public health, wastewater treatment, water quality, water treatment

NEW MEXICO WATER CONSERVATION ALLIANCE

Alice Darilek, President

360 Montezuma, #149

Santa Fe, NM 87501

(800) WATER-NM Internet: <http://wrri.nmsu.edu/wrdis/conserves/alliance/alliance.html>

The Alliance is a group of water conservation professionals and others interested in municipal and industrial water use efficiency. Alliance members meet on a bimonthly basis to exchange program information and work cooperatively on water conservation education efforts.

RIO GRANDE/RIO BRAVO BASIN COALITION

Bess Metcalf, Executive Director

c/o CERM

P.O. Box 645

El Paso, TX 79968

(915) 747-5145 FAX 747-5145 Internet: <http://www.utep.edu/rioweb>

e-mail: bmetcalf@upte.edu

The Rio Grande/Rio Bravo Basin Coalition is an organizer, information clearinghouse, and advocate for the preservation and sustainable use of the Rio Grande (known as the Rio Bravo in Mexico), its tributaries, and areas along the river. Leadership and partners are from the United States, Mexico and the Pueblo nations. The Coalition hosts regional meetings and a biennial congress of stakeholders to discuss environmental policies and sustainability issues. Día del Rio, an annual river celebration sponsored by the Coalition, helps draw attention to the river's value as a natural and cultural resource.

CHAPTER 5: UNIVERSITIES

EASTERN NEW MEXICO UNIVERSITY

Eastern New Mexico University is a comprehensive multi-campus university that offers a wide variety of undergraduate and graduate programs. Educational programs are offered at the Portales campus and also via interactive distance education, public broadcast television, a university center in Ruidoso and a branch/community college located in Roswell. Additional information about ENMU can be obtained from their web site at <http://www.enmu.edu>.

❖ **Biology Department**

Marvin M.F. Lutnesky, Department Head

Eastern New Mexico University

Portales, NM 88130

(505) 562-2478 FAX 562-2192 e-mail: marv.lutnesky@enmu.edu

Marvin M.F. Lutnesky

aquaculture, behavioral ecology, crustaceans, fish ecology, fisheries

Manuel F. Varela

bacteria, biodegradation, disinfection, isotopes, membranes, microbial physiology, molecular microbiology, solute transport, viruses

❖ **Physical Sciences Department**

Robert W. Pierce, Department Head

Eastern New Mexico University

Portales, NM 88130

(505) 562-2419 FAX 562-2192

Jim Constantopoulos

education, fluoride levels, geochemistry, mineralogy

Robert W. Pierce

biostratigraphy, education, sedimentation, stratigraphy

NEW MEXICO HIGHLANDS UNIVERSITY

With more than 2,800 students, New Mexico Highlands University offers bachelor's degree programs in biology, chemistry, environmental science, engineering, computer science and mathematics. Master's of science programs are offered in chemistry and life sciences, which includes biology and environmental science and management.

❖ **Engineering Department**

Bill Taylor, Interim Chair

New Mexico Highlands University

Las Vegas, NM 87701

(505) 454-3360 FAX 454-3081

Bill Taylor

biological control, ecosystems, institutional relationships, mathematical models, risk analysis, systems engineering

George Djuro Zrilic

data analysis, numerical analysis, remote sensing, statistics, stochastic processes

❖ **Life Sciences Department**

Maurine Romine, Chair
New Mexico Highlands University
Las Vegas, NM 87701
(505) 454-3264 FAX 454-3063

Kenneth P. Bentson

ecosystems, heavy metals, herbicides, insecticides, pest management, pesticides, plant-water relationships, risk analysis, toxic substances, trace organics

Dick Greene

biomonitoring, biotechnology, fluid mechanics, hydraulics

W. David Hacker

air quality, environmental law, environmental policy, fire ecology

Gerald Z. Jacobi

acid deposition, benthos, bioindicators, biomonitoring, education, fish ecology, water quality

Shaun McEllin

biological control, birds, ecosystems, fish ecology, lakes, landscape management, marshes, mathematical models, mountain lakes/streams, shore birds

NEW MEXICO STATE UNIVERSITY

New Mexico State University, the state's land grant university, has over 15,000 students. NMSU houses the state's agricultural college and numerous research units including the Water Resources Research Institute, Southwest Technology Development Institute, Physical Science Laboratory, Plant Genetic Engineering Laboratory and Waste-management Education and Research Consortium. NMSU is characterized by the Carnegie Foundation as a Level One research institution and has more than \$300 million in total research contracts. Branch campuses are located in Alamogordo, Carlsbad, Grants and Doña Ana (located on the main campus in Las Cruces). Information about NMSU is available on the Internet at <http://www.nmsu.edu>.

❖ **Agricultural Economics and Agricultural Business**

John J. Waelti, Department Head

New Mexico State University
Box 30003 MSC 3169
Las Cruces, NM 88003
(505) 646-1806 FAX 646-3522

Clyde Eastman, Emeritus

developing countries, property rights, small-scale irrigation, sociocultural issues

John Fowler

economics, policy analysis, range management

William Gorman

agriculture, aquaculture, economics, Indian water issues, irrigation, marketing, resource planning

Robert R. Lansford, Emeritus

economics, Indian water issues, irrigation, irrigation management, recreation, resource development, resource planning, risk analysis, water resources development, water rights

Rhonda Skaggs

agriculture, economics, policy analysis, socioeconomic issues

Frank Ward

benefit-cost analysis, economics, instream flow, law, policy analysis, recreation, river basin optimization

❖ **Agricultural Experiment Station**

LeRoy Daugherty, Associate Director

New Mexico State University

Box 30003 MSC 3BF

Las Cruces, NM 88003

(505) 646-3125 FAX 646-5975 e-mail: ldaugher@nmsu.edu

The Agricultural Experiment Station is the research division of NMSU's College of Agriculture and Home Economics. AES has seven departments on the main campus, and maintains 14 off-campus field research locations that include: eight science centers; a tree research center; a cattle research center; an animal insect lab; and three ranches.

❖ **Agricultural Science Center/Artesia**

Carl E. Barnes, Superintendent

New Mexico State University

67 East Four Dinkus Road

Artesia, NM 88210

(505) 748-1228 FAX 748-1229

Carl E. Barnes

agriculture, computers, crop water use, decision models, evapotranspiration, irrigation management, irrigation scheduling, plant growth, water use efficiency, weather data collection

Keith Duncan

herbicides, land use, landscape management, leaching, pesticides, plant growth, range management, weeds, wildlife management

Robert Flynn

production, soils, sustainability, water quality

Jane Pierce

agriculture, ecosystems, insecticides, insects

❖ **Agricultural Science Center/Clovis**

R. Darrell Baker, Superintendent

New Mexico State University

Star Route Box 77

Clovis, NM 88101

(505) 985-2292 FAX 985-2419 email: clovis@nmsu.edu

R. Darrell Baker

agriculture, biological control, chemigation, conservation, drought, fertilizers, fungicides, herbicides, insecticides, trace elements

❖ **Agricultural Science Center/Farmington**

Joe Gregory, Superintendent

New Mexico State University

P.O. Box 1018

Farmington, NM 87499

(505) 327-7757 FAX 325-5246

Rick Arnold

agriculture, chemigation, groundwater management, herbicides, insecticides, insects, leaching, subsurface drainage, weeds

Joe Gregory

agriculture, arid climates, crop water use, herbicides, irrigation scheduling, pest management, plant-water relationships, rainfall, weather data collection, weeds

Daniel Smeal

agriculture, crop water use, evapotranspiration, irrigation management, irrigation scheduling, plant-water relationships, water use data, water use efficiency, weather data collection

✦ **Agricultural Science Center/Los Lunas**

Lloyd Micheal English, Superintendent

New Mexico State University
1036 Miller Street SW
Los Lunas, NM 87031
(505) 865-4684 FAX 865-5163

Lloyd Michael English

herbicides, insecticides, insects, landscape management, pest management, pesticides, plant growth, plant stress, weeds, wildlife management

✦ **Agricultural Science Center/Tucumcari**

Rex E. Kirksey, Superintendent

New Mexico State University
6501 Quay Road AM-5
Tucumcari, NM 88401-9602
(505) 461-1620

Rex E. Kirksey

agriculture, arid climates, conservation, economics, risk management, soil erosion, water use efficiency

Leonard M. Lauriault

agriculture, data analysis, fertilizers, plant growth, statistics

✦ **Alcalde Sustainable Agricultural Science Center**

Steve Guldán, Superintendent

New Mexico State University
P.O. Box 1159
369 Alcalde Street
Alcalde, NM 87511
(505) 852-4241 email: alcalde@nmsu.edu

Steve Guldán

apples, forage, sustainable agriculture, vegetables

✦ **Leyendecker Plant Science Research Center and
Fabian Garcia Agricultural Science Center**

James L. Fowler, Superintendent

New Mexico State University
Box 30003 MSC 3LEY
Las Cruces, NM 88003
(505) 646-2282 FAX 646-8048 email: fgarcia@nmsu.edu

James L. Fowler

agriculture, crop water use, evapotranspiration, irrigation, irrigation management, plant growth, plant stress, plant-water relationships, salinity, water use efficiency

❖ **Agronomy and Horticulture Department**

James T. Fisher, Acting Department Head

New Mexico State University
Box 30003 MSC 3Q
Las Cruces, NM 88003
(505) 646-3405 FAX 646-6041

Tim L. Jones

computers, contaminant transport, evaporation, mathematical models, moisture uptake, plant-water relationships, soil physics, soil-water relationships, unsaturated flow, waste disposal

William C. Lindemann

agriculture, biodegradation, biological treatment, denitrification, nitrogen, soil microbiology

B. D. McCaslin

agriculture, animal waste, arid climates, dairy waste management, fertilizers, groundwater quality, land-water interactions, nitrogen, plant growth, water quality monitoring

Gregory C. Phillips

agriculture, biotechnology, crop water use, drought, plant stress, water use efficiency

Geno Picchioni

plant mineral nutrition, plant-water relationships, salinity, water quality

Rolston St. Hilaire

irrigation, landscape management, photosynthesis, plant growth, plant stress, plant-water relationships, water use data

Ted Sammis

climate, crop water use, evapotranspiration, irrigation

April Ulery

soil chemistry

❖ **Soil-Water-Air Testing and Research Facility**

Andrew Bristol, Laboratory Manager

New Mexico State University
Box 30003 MSC 3Q
Las Cruces, NM 88003
(505) 646-4422 FAX 646-6041 Internet: <http://swatlab.nmsu.edu>

Andrew Bristol

heavy metals, trace elements, water quality, water softening, water treatment

❖ **Animal and Range Sciences Department**

Bobby J. Rankin, Department Head

New Mexico State University
Box 30003 MSC 3I
Las Cruces, NM 88003
(505) 646-2514 FAX 646-5441

Reldon Beck

arid climates, conservation, drought, ecosystems, plant growth, plant-water relationships, range management

Gary B. Donart

arid climates, drought, plant stress, plant-water relationships, policy analysis, riparian vegetation

Kirk McDaniel

arid climates, conservation, ecosystems, herbicides, landscape management, phreatophytes, range management, remote sensing, riparian vegetation, weeds

Bobby J. Rankin

agriculture, animal waste

James R. Strickland

heavy metals, nitrates, toxicology

M. Karl Wood

arid climates, conservation, ecosystems, infiltration, land-water interactions, range management, riparian vegetation, runoff, soil erosion, watershed management

❖ **Biology Department**

Laura F. Huenneke, Department Head

New Mexico State University

Box 30001 MSC 3AF

Las Cruces, NM 88003

(505) 646-3611 FAX 646-5665

James L. Botsford

agriculture, bacteria, biological control, biotechnology, brines, epidemiology, groundwater quality, organic compounds, osmosis, saline soils

Vincent P. Gutschick

agriculture, arid climates, crop water use, energy budget, evapotranspiration, mathematical models, nutrients, photosynthesis, plant-water relationships, water use efficiency

R. Peter Herman

algae, bacteria, ecosystems, nitrogen

Laura F. Huenneke

arid climates, conservation, ecosystems, plant-water relationships, range management, riparian vegetation, weeds

Kevin H. Oshima

epidemiology, filtration methods, health effects, viruses

Geoffrey Smith

bacteria, biodegradation, denitrification, groundwater quality, hydrobiology, organic compounds, water treatment facilities

❖ **Chemistry and Biochemistry Department**

Wolfgang F. Mueller, Department Head

New Mexico State University

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Las Cruces, NM 88003

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James Hageman

agriculture, brackish water, crop water use, developing countries, new crops, plant stress, plant-water relationships, salinity, water use efficiency

Michael D. Johnson

heavy metals, isotopes, oxidation, ozonation, wastewater treatment, water chemistry, water treatment

Glenn D. Kuehn

agriculture, biotechnology, drought, heavy metals, plant stress, plant-water relationships, water use efficiency

Peter Lammers

bacteria, biotechnology, nitrogen, plant stress, plant-water relationships, trace elements

Wolfgang F. Mueller

biodegradation, biotransformation, environmental contaminants, hazardous waste, herbicides, insecticides, pesticides, pollutants, toxic substances, toxicology, trace organics

Gary Rayson

adsorption and exchange, heavy metals, ion exchange, trace elements, water chemistry

Joseph Wang

heavy metals, pollution control, trace elements, water quality control

❖ **Civil, Agricultural and Geological Engineering**

Ken White, Department Head

New Mexico State University

Box 30001 MSC 3CE

Las Cruces, NM 88003

(505) 646-3801 FAX 646-6049

Fernando Cadena-C

adsorption and exchange, biodegradation, biological treatment, brackish water, brines, chlorination, computers, contaminant transport, dairy waste management, developing countries

Adrian Hanson

activated carbon, activated sludge, adsorption and exchange, anaerobic treatment, biological treatment, hazardous waste, ion exchange, lakes, pollution control, ponds, sanitary landfills, septic tanks, sewer systems, wastewater, wastewater treatment, water treatment, water treatment facilities, wetlands

John W. Hernández

activated sludge, biological treatment, earth dams, hazardous waste, institutional relationships, lagoons, pollutants, regulatory permits, sludge, toxic substances, wastewater, wastewater treatment, water law, water quality, water treatment

Ricardo Jacquez

animal waste, bacteria, biodegradation, biological treatment, dairy waste management, education, hazardous waste, pollution control, septic tanks, wastewater irrigation

Nirmala N. Khandan

aeration, biodegradation, groundwater quality, model studies, organic compounds, pollution control, toxic substances, water treatment

J. Phillip King

aquifer characteristics, conjunctive use, conservation, crop water use, drainage, drought, evapotranspiration, groundwater hydrology, irrigation management, leaching, open channels, phreatophytes, rainfall-runoff models

Zohrab Samani

arid climates, contaminant transport, dairy waste management, developing countries, evapotranspiration, groundwater management, groundwater modeling, groundwater quality, hydraulic structures, irrigation, irrigation scheduling, irrigation systems

❖ **Cooperative Extension Service**

Billy Dictson, Interim Associate Dean and Director

New Mexico State University

Box 30003 MSC 3AE

Las Cruces, NM 88003

(505) 646-3015 FAX 646-5975

Terrell T. Baker

floodplain management, instream flow, land-water interactions, mountain lakes/streams, nutrients, range management, riparian vegetation, rivers, streams, water quality management, watershed management, wetlands

Robert O. Coppedge

economics, socioeconomic issues

George Dickerson

agriculture, arid climates, drought, education, water harvesting

Natalie Goldberg

plant pathology, plant stress

Richard Lee

education, herbicides, weeds

R. Craig Runyan

agriculture, dairy waste management, education, groundwater quality, information dissemination, irrigation, risk analysis, risk management

❖ **Economics Department**

Kenneth Nowotny, Department Head

New Mexico State University

Box 30001 MSC 3CQ

Las Cruces, NM 88003

(505) 646-2113 FAX 646-6155

Douglas Gegax

desalination, economics, irrigation, irrigation management, irrigation scheduling, risk analysis, risk management, urban water systems

Tom McGuckin

desalination, economics, irrigation, irrigation management, irrigation scheduling, risk analysis, risk management, urban water systems

Janet Tanski

developing countries, economics, energy use and conservation, pesticides, pollution control

❖ **Entomology, Plant Pathology and Weed Science**

H. G. Kinzer, Department Head

New Mexico State University

Box 30003 MSC 3BE

Las Cruces, NM 88003

(505) 646-3225 FAX 646-8087

Jill Schroeder

agriculture, groundwater quality, herbicides, infiltration, nutrients, pest management, pesticides, pollution control, soil chemistry, water quality control

Steve Thomas

agriculture, benefit-cost analysis, epidemiology, herbicides, insects, irrigation, irrigation management, pesticides, plant pathology, plant stress, plant-water relationships

❖ **Fishery and Wildlife Sciences Department**

Donald F. Caccamise, Department Head

New Mexico State University

Box 30003 MSC 4901

Las Cruces, NM 88003

(505) 646-1544 FAX 646-1281

Mark Andersen

arid climates, birds, computers, conservation, data analysis, ecosystems, mathematical models, statistics, stochastic processes, wildlife management

Jon Boren

aquaculture, wildlife management

Donald F. Caccamise

birds, conservation, ecosystems, wildlife management

Colleen A. Caldwell

bioindicators, contaminant transport, fisheries, heavy metals, pollutants, toxic substances, water quality, weather data collection

Richard A. Cole

decision models, ecosystems, fish ecology, fisheries, hydrobiology, mathematical models, multiple-objective planning, policy analysis, recreation

Volney W. Howard, Jr.

conservation, pest management, range management, riparian vegetation, watershed management, wildlife management

Bruce Thompson

birds, conflict management, conservation, ecosystems, multiple-objective planning, riparian vegetation, shore birds, wildlife management

Byron Wright

aquaculture, wildlife management

❖ **Geography Department**

Robert J. Czerniak, Department Head

New Mexico State University

Box 30001 MSC MAP

Las Cruces, NM 88003

(505) 646-3509 FAX 646-7430

Robert J. Czerniak

computer cartography, land use, planning, zoning

Michael DeMers

geographic information systems, landscape ecology

Daniel Dugas

climate, geomorphology

John B. Wright

biogeography, environmental planning

❖ **Geological Sciences Department**

Thomas H. Giordano, Department Head

New Mexico State University

Box 30001 MSC 3AB

Las Cruces, NM 88003

(505) 646-2708 FAX 646-1056

Thomas H. Giordano

brines, data analysis, geochemistry, groundwater modeling, groundwater quality, heavy metals, mathematical models, physical chemistry, water chemistry

Gregory Mack

arid climates, river basin development, sedimentation

❖ **Mechanical Engineering Department**

Bahram Nassersharif, Department Head

New Mexico State University
Box 30001 MSC 3450
Las Cruces, NM 88003
(505) 646-4342 FAX 646-6111

Richard Hills

contaminant transport, infiltration, mathematical models, model studies, numerical analysis, solute transport

❖ **New Mexico Water Resources Research Institute**

Tom Bahr, Director

New Mexico State University
Box 30001 MSC 3167
Las Cruces, NM 88003
(505) 646-4337 FAX 646-6418 Internet: <http://wrri.nmsu.edu>

The overall mission of the NMWRRI is to develop and disseminate knowledge that will assist the state, region, and nation in solving water problems. Through funding research and demonstration projects, the Institute provides opportunities for faculty members and students statewide to use their knowledge and experience to solve New Mexico's pressing water problems. In-house staff administer institute programs, conduct special research projects, and produce a variety of reports, such as, *New Mexico Water Rights*, annual water conference proceedings, and the Institute newsletter, the *Divining Rod*.

Tom Bahr

ecosystems, groundwater management, groundwater quality, instream flow, multiple-objective planning, research administration, water quality, water quality management, water quality standards, water rights

Bobby Creel

computers, data storage and retrieval, economics, geographic information systems, policy analysis, research administration, resource development, resource planning, water law, water resources development

John F. Kennedy

aquifer characteristics, cartography, computers, data storage and retrieval, geographic information systems, geomorphology, groundwater hydrology, hydrogeology, information dissemination, sedimentation

Ellie Maese Duran

information dissemination

Catherine T. Ortega Klett

information dissemination, publications, research administration

Darlene Reeves

research administration

Cynthia Griswold Rex

information dissemination

❖ **Plant Genetic Engineering Laboratory**

John D. Kemp, Director
New Mexico State University
Box 30003 MSC 3GL
Las Cruces, NM 88003
(505) 646-5453 FAX 646-1302

The Plant Genetic Engineering Laboratory (PGEL) is one of the five centers of technical excellence established by the State of New Mexico as part of the Rio Grande Research Corridor. PGEL works to develop plant biotechnology innovations for crop plant adaptation to environmental stresses in arid and semiarid regions. Research at PGEL is concentrated in three areas: genetic tolerance to environmental stress; genetic tolerance to pests; and development of new products, either as new crops suited for arid lands agriculture, or by exploiting unique traits found among desert-adapted organisms. PGEL utilizes state-of-the-art technology and specialized laboratory and greenhouse facilities to support research, development and teaching activities.

John D. Kemp

arid climates, bacteria, biotechnology, groundwater quality, herbicides, insecticides, pest management, pesticides, plant pathology, plant stress

❖ **Southwest Center for Environmental Research and Policy**

Erin Ross, Director
New Mexico State University
College of Business Administration and Economics
Box 30001 MSC 3CR
Las Cruces, NM 88003
(505) 646-5255 FAX 646-6155

Five regional United States institutions (Arizona State University, New Mexico State University, San Diego State University, the University of Texas/EI Paso, and the University of Utah) and four Mexican institutions (Instituto Tecnológico de Ciudad Juárez, the Instituto Tecnológico de Estudios Superiores de Monterrey, the Universidad Autonoma de Ciudad Juárez, and the Universidad Autonoma de Baja California) formed a consortium to address environmental issues along the United States-Mexico border. The consortium works in cooperation with the U.S. Environmental Protection Agency, the Mexican Secretaria de Medio Ambiente, Recursos Naturales y Pesca (SEMARNAP), environmental agencies in the border states, and business and industry. The Southwest Center for Environmental Research and Policy (SCERP) was formed by member institutions of the consortium and now is supported by the EPA. It was established in part to conduct research; develop abatement and control techniques; carry out technical and policy studies and programs; and develop environmental protection education and training programs. Areas of concentration include: hazardous and toxic waste management; air flow modeling; air quality management; containment, transportation and disposal; drinking water availability and research; water supply research and technology; and environmental policy issues that are relevant to the United States-Mexico border. SCERP has conducted more than 170 border environmental research projects since its inception in 1990.

Erin Ross

economics, education, energy use and conservation, environmental management systems, environmental sanitation, groundwater management, hazardous waste, health effects, land use, policy analysis, pollution control, risk management, rivers, stormwater management, urban planning, wastewater, water quality management, watershed management

❖ Southwest Technology Development Institute

Rudi Schoenmackers, Director
New Mexico State University
Box 30001 MSC 3SOL
Las Cruces, NM 88003
(505) 646-1846 FAX 646-2960

The Southwest Technology Development Institute's mission is to provide applied research services in energy-related technology development to private and public sector clients. Current research areas include solar, geothermal and energy efficiency. The institute operates the Southwest Region Experiment Station, a 3-acre photovoltaic systems test and evaluation facility, and the NMSU Geothermal Greenhouse facility.

Robert Foster

cooling, developing countries, distribution systems, energy use and conservation, evaporation, geothermal power, hydropower, solar energy, urban water systems, water resources development

James C. Witcher

drilling, geochemistry, geophysics, geothermal resources, groundwater hydrology, groundwater movement, groundwater quality, hydrogeology, resource development, springs

Walter H. Zachritz II

aquatic plants, biological treatment, hazardous waste, lagoons, pollution control, septic tanks, wastewater treatment, water quality, wetlands

❖ Waste-management Education & Research Consortium

Ron Bhada, Director
New Mexico State University
Box 30001 MSC WERC
Las Cruces, NM 88003
(505) 646-2038 FAX 646-4149

The Waste-management Education & Research Consortium (WERC) is a research, education, technology transfer, and public communication effort by a partnership between New Mexico State University, New Mexico Tech, Navajo Community College, Los Alamos National Laboratory, and Sandia National Laboratories. The program was started by a cooperative agreement with the U.S. Department of Energy, but currently includes programs with several federal and state agencies together with approximately 40 industrial affiliates. WERC supports undergraduate and graduate education programs at its member institutions, as well as short courses for professionals and technicians presented on-site or via innovative distance education techniques. An important component of the program is the acquisition of expertise in the areas of waste management, pollution prevention, and environmental restoration via hands-on independent cutting edge technology development projects. WERC has five educational/research laboratories:

Carlsbad Environmental Monitoring & Research Center - This laboratory was established to provide independent environmental data for the regions around the Waste Isolation Pilot Plant (WIPP) of the U.S. Department of Energy. The laboratory will provide background data, as well as data after waste is placed in the repository, and will include all aspects of environmental information and media.

Hobbs Oil-Water Experimental Facility - This facility provides services related to environmental and waste concerns of the petroleum industry in the United States.

Navajo Drylands Experimental Laboratory - The laboratory was established as a pilot project to address problems relating to experimental geological and geochemistry in arid and semiarid regions. Preliminary research focused on groundwater quality and reclamation of abandoned mine areas.

Radioactive Experimental Facility - This facility is involved in nondestructive classification and quantification of radioactive waste as well as experimental research in contamination pathways and geologic characterization.

Soil-Water-Air Testing and Research Facility - Located on the NMSU campus, this facility provides analytical services for toxic and hazardous wastes. It is equipped for physical, inorganic, and bacterial analysis of soil, water, air and plants. The facility also provides drinking water analyses to the State of New Mexico.

Ron Bhada

education, energy use, hazardous waste, planning, pollution control, power plants

Marsha Conley

biochemical processes, environmental monitoring

Abbas Ghassemi

education, pollution prevention, process controls, process design

Ricardo Jacquez

biological treatment, education, hazardous waste, pollution control, wastewater irrigation

Barbara Kimball

engineering education, K-12 education

Carolyn Perez

education, strategic planning, training

Patricia Sullivan

binational education, technology transfer

Bryan Swain

education, groundwater hydrology, health effects, K-12 education, water education for teachers, water rights, wetlands

❖ **Water Technology Program**

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A one-year certificate and an associate degree are available through the Water Technology Program. The program provides students with the knowledge and technical skills to become municipal water or wastewater plant operators, laboratory analysts, or high-purity water production operators. Curriculum include laboratory analysis of water and wastewater, maintenance and operation of municipal water and wastewater plants, operation of high-purity water systems, and regulations as they apply to the water and wastewater field.

Cynthia Hiers-Robinson

wastewater laboratory analysis, wastewater microbiology, wastewater prototype operation, wastewater treatment, water microbiology

Terry Mount

wastewater laboratory analysis, wastewater treatment, water chemistry, water laboratory analysis

Doug Roby

ion exchange, reverse osmosis, water chemistry, water laboratory analysis, water softening, water treatment

❖ **Water Utilities Technical Assistance Program**

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The Water Utilities Technical Assistance Program (WUTAP) provides on-site technical assistance and training to water and wastewater systems throughout the state of New Mexico. Assistance provided includes water and wastewater operations troubleshooting, regulatory issues, utilities management, and comprehensive performance evaluations.

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regulations, utilities management, wastewater laboratory analysis, wastewater treatment, water laboratory analysis, water treatment

Robert George

regulations, utilities management, wastewater laboratory analysis, wastewater treatment, water laboratory analysis, water treatment

Robert Gott

regulations, utilities management, wastewater laboratory analysis, wastewater treatment, water laboratory analysis, water treatment

NEW MEXICO TECH (New Mexico Institute of Mining and Technology)

New Mexico Tech, located in Socorro, New Mexico, offers undergraduate and graduate degrees in science and engineering fields. Many of Tech's research organizations are world leaders in their fields, most notably Langmuir Laboratory for Atmospheric Research, Energetic Materials Research and Testing Center, Petroleum Recovery Research Center, and the New Mexico Bureau of Mines and Mineral Resources. Tech's Hydrology Program has been rated fourth among the nation's best according to the annual ranking of graduate school programs by the *U.S. News & World Report*. More than 1,400 students receive one-to-one mentoring relationships with professors and hands-on laboratory learning experiences. Additional information about New Mexico Tech can be obtained on the Internet at <http://www.nmt.edu>.

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Jan M.H. Hendrickx

developing countries, drainage, geophysics, groundwater hydrology, groundwater recharge, irrigation

Brian J.O.L. McPherson

aquifer characteristics, aquifer parameters, fluid flow, geophysics, groundwater modeling, groundwater movement, heat budget, hydrogeology, hydrologic models, model studies

Peter S. Mozley

aquifer characteristics, fluid flow, hydrogeology, isotopes, sedimentation

Fred M. Phillips

aquifer characteristics, aquifer parameters, arid climates, climate, geomorphology, glaciers, groundwater recharge, isotopes, water chemistry

Eric E. Small

atmospheric processes, climate, evaporation, geomorphology, lakes, land-water interactions, rainfall

John L. Wilson

contaminant transport, groundwater hydrology, groundwater management, groundwater modeling, groundwater movement, hydrogeology, mathematical models, soil physics, surface-groundwater relationships, unsaturated flow

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activated carbon, adsorption and exchange, atmospheric models, atmospheric processes

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education, energy use and conservation, geochemistry, geomorphology, heavy metals, Indian water issues, leaching, mineralogy, mining, trace elements

Baolin Deng

adsorption and exchange, education, groundwater quality, hazardous waste, heavy metals, membranes, reverse osmosis, water chemistry, water softening, water treatment

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anaerobic treatment, biodegradation, denitrification, hazardous waste, industrial wastewater, risk analysis, toxic substances, underground storage tanks, wastewater treatment, water quality management

Randal S. Martin

atmospheric models, atmospheric processes, fluid mechanics, oxidation, pollutants, pollution control, regulatory permits, weather data collection

Navid Mojtabai

dams, drilling, earth dams, leaching, mining, risk analysis, seismology, subsidence, waste disposal

Clinton P. Richardson

activated sludge, biological treatment, hazardous waste, industrial wastewater, pollution control, sanitary landfills, stormwater management, wastewater treatment, water quality control, water treatment

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Lawrence W. Teufel

fluid flow, fractures, reservoir characterization and simulation

UNIVERSITY OF NEW MEXICO

The University of New Mexico is the state's largest institution of higher learning. UNM offers a wide range of academic disciplines to the more than 23,000 students enrolled at the main campus in Albuquerque. UNM houses the state's medical and law schools, as well as the Bureau of Business and Economic Research and the Institute of Public Law. The university's home page can be accessed via Internet at <http://www.unm.edu>.

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arid climates, insects, invertebrates, riparian vegetation

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bacteria, climate, ecosystems, isotopes, nutrients, riparian vegetation, rivers, solute transport, streams, surface-groundwater relationships

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developing countries, ecosystems, education, epidemiology, invertebrates, marine resources

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arid climates, denitrification, ecosystems, geographic information systems, nitrogen, plant-water relationships, riparian vegetation, soil chemistry, water chemistry, watershed management

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climate, hydrobiology, insects, riparian vegetation, wetlands

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atmospheric processes, climate, rainfall, water chemistry, weather data collection

Carleton S. White

acid deposition, biodegradation, climate, ecosystems, land-water interactions, nitrogen, soil chemistry, soil microbiology, water chemistry, water quality

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conservation biology, mammalogy, museum databasing

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activated sludge, adsorption and exchange, disinfection, hydraulics, reverse osmosis, wastewater, water chemistry, water quality standards, water softening, water treatment

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environmental microscopy, preservative coatings for structural materials, risk analysis, risk management

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The Earth Data Analysis Center (EDAC) is a geographic information system (GIS) and remote sensing research application center that was established in 1964 by NASA. Since 1974, EDAC has provided image processing and GIS in the natural and cultural resources area. EDAC uses Arc/Info GIS software for the integration, processing, analysis and modeling of spatial data; and ERDAS image processing software for the processing and analysis of satellite and airborne scanner data. EDAC maintains the Resource Geographic Information System (RGIS) clearinghouse of digital spatial data for New Mexico.

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data analysis, geographic information systems, land use, remote sensing

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geographic information systems, remote sensing

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computers, groundwater quality, information dissemination, socioeconomic issues, underground storage tanks, watershed management

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conservation, information dissemination, institutional relationships, law, policy analysis, resource planning, wildlife management

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conflict management, education, information dissemination, law, policy analysis, public health

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biodiversity, conservation biology, herpetology

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conservation biology, mammalogy, museum databasing

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The New Mexico Engineering Research Institute (NMERI) is the contact research arm of UNM's School of Engineering. NMERI has expertise in water studies, conservation, and engineering technical assistance, and wastewater and hazardous waste disposal. NMERI is a recognized leader in infrastructure analysis, halon replacement options, critical infrastructure assurance, professional development, GIS/GPS training, and information systems.

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environmental sanitation, Indian water issues, sewer systems, wastewater treatment, water treatment, water treatment facilities, wetlands

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Mushtaq A. Khan

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Indian water issues, institutional relationships, instream flow, interbasin transfers, land use, law, mining, policy analysis, water law, water rights

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groundwater hydrology, groundwater modeling, water resources development

AREAS OF EXPERTISE

If you know the type of information you need, but not who has that information, you may want to begin your search with this section. Below are the areas of expertise with contact names and the page numbers on which they appear.

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