

## SECTION 7

### Resources

Links to the resources provided in this section are intended to promote stakeholder understanding of and involvement in state-led efforts to improve and protect water quality, and to support local implementation of management and monitoring strategies that will assist those efforts.

Technical and financial assistance for watershed improvement planning and implementation are provided by an array of local, state, and federal agencies and organizations, and data and monitoring support are available through GWP. Contact GWP through either of these addresses:

David Menzie, NMED SWQB  
3082 32<sup>nd</sup> Street By-Pass Road – Suite D, Silver City, NM 88061  
(575) 956-1548  
[David.Menzie@state.nm.us](mailto:David.Menzie@state.nm.us)

Matthew Schultz, NMED SWQB  
3082 32<sup>nd</sup> Street By-Pass Road – Suite D, Silver City, NM 88061  
(575) 956-1550  
[Matthew.Schultz@state.nm.us](mailto:Matthew.Schultz@state.nm.us)

Most resources are provided as links to agency or organization websites (current as of June 2009). Many of the specific links included will also be found by navigating from the agency or organization's main website, but having spent more than a few hours ourselves exploring the vastness of cyberspace, we have also included direct links to as many pertinent resources as possible (e.g., NRCS datasets, which occupy a subset of the main NRCS page). For users without computer or internet access, please contact GWP at either address above, or refer to the list of watershed agencies, organizations, and groups for other contact information. This set of resources is by no means comprehensive but is intended to provide ideas and support—particularly for those wanting to know more about the health of their streams, or who may be new to watershed planning efforts.

**WATER QUALITY INFORMATION RESOURCES:  
NMED SWQB NONPOINT SOURCE PROGRAMS, DESIGNATED USES, IDENTIFIED WATER  
QUALITY IMPAIRMENTS, AND TMDL DEVELOPMENT**

### **NONPOINT SOURCE POLLUTION**

The State of New Mexico publishes a number of documents that explain its responsibilities and activities in tracking and reducing NPS pollution on the state's watersheds:

#### **The New Mexico *Statewide Water Quality Management Plan***

[http://www.nmenv.state.nm.us/swqb/Planning/Water\\_Quality\\_Management\\_Plan/index.html](http://www.nmenv.state.nm.us/swqb/Planning/Water_Quality_Management_Plan/index.html)

- Summarizes CWA development, the state's water quality management system—including monitoring, data assessment, and reporting strategies—and the roles of major participants
- Describes TMDL development steps and provides links to TMDL documents for all impaired stream segments
- Summarizes effluent (point source), municipal, and industrial discharge limitations, in addition to the state's role in reviewing dredge-and-fill applications
- Details methods and event schedules for public input into water quality designations, evaluation, and protection

#### **The state's *Nonpoint Source Management Program (1999)*:**

[http://www.nmenv.state.nm.us/swqb/NPS\\_Management\\_Plan-1999.pdf](http://www.nmenv.state.nm.us/swqb/NPS_Management_Plan-1999.pdf)

- Addresses surface water and groundwater NPS issues
- Identifies specific agencies and their strategies for managing nonpoint source pollution
- Describes WRAS development process and partnership efforts among SWQB, watershed groups, and land management agencies
- Defines impairment level designations, NPS categories, and MPs

### **DESIGNATED USES AND OTHER PROVISIONS OF WATER QUALITY STANDARDS**

For complete information related to surface water quality standards for New Mexico, also known as *Standards for Interstate and Intrastate Surface Waters*, including their Triennial Review Process, please visit:

<http://www.nmenv.state.nm.us/swqb/Standards>.

**Current updates to the *Standards* (as of August 2007) are available online at:**

- <http://www.nmcpr.state.nm.us/nmac/parts/title20/20.006.0004.htm>; or
- <http://www.nmcpr.state.nm.us/nmac/parts/title20/20.006.0004.pdf>.
- The WQS is a reference for the most detailed information on the state's water quality programs; it provides definitions of all terminology used by the state in determinations and descriptions of water quality, impairments, and management strategies
- Antidegradation policy and Outstanding National Resource Waters (ONRW) designation
- Impairment criteria, sampling and analysis procedures
- Designated use descriptions by stream segment, including designations for waters considered to be ephemeral, intermittent, or perennial. (Basin and stream segment designations in the *Standards* correspond to "WQS reference" designations in the §303(d)/§305(b) *Integrated Report*.)

Proposed revisions to the current *WQS* are underway as the focus of the 2009-2010 Triennial Review process. Hearings are currently scheduled to begin in December 2009. For more information concerning this upcoming review, please visit:

<http://www.nmenv.state.nm.us/SWQB/Standards>.

**IDENTIFIED WATER QUALITY IMPAIRMENTS ON THE GILA WATERSHED**

The most detailed information related to water quality impairments found on the Gila watershed appears in two documents published by the state:

**New Mexico's 2008–2010 *Integrated Clean Water Act §303(d)/ §305(b) Report*:**

<http://www.nmenv.state.nm.us/swqb/303d-305b/2008-2010>

- Information on the state's surface waters by basin, including physiographic characteristics, known impairments, and known remediation measures (Chapter 2).
- Information on the state's approach to and responsibilities for managing surface and groundwater quality (Chapters 3–5).
- For each stream segment, a list detailing designated uses, watershed area, future monitoring schedule, and current impairment category. For stream segments with identified impairments, a list of the impairment(s) and the probable causes as evaluated by SWQB (Appendix B).

The §303(d)/ §305(b) *Report* is scheduled to be updated in late 2010.

The ***Record of Decision*** is the state's historical record of reasonings for stream reach listings, de-listings, and the sampling results that are used to develop the bi-annual §303(d)/ §305(b) *Report*. The current version is the ***Record of Decision (ROD) for the 2008–2010 State of New Mexico Integrated List for Assessed Surface Waters***:

<http://www.nmenv.state.nm.us/swqb/303d-305b/2008-2010/documents/303dROD.pdf>

- Definitions of major terminology used in water quality and designated use determinations and summary explanations of parameters measured for determinations of surface water quality
- Stream segments are grouped by HUC, with summaries of bi-annual actions relating to each segment. The summaries include descriptions of results from intensive sampling and rationales for listing and de-listing decisions. See the example below from the 2004 ROD for Diamond Creek:

### **TMDL DEVELOPMENT**

NMED SWQB's process for developing TMDLs, including public input, quantification of pollutant loads, and amendments to the *Water Quality Management Plan* are summarized at:

<http://www.nmenv.state.nm.us/SWQB/TMDL/steps.html>

A link to the TMDL developed for each listed reach on the Gila watershed appears on the

*Diamond Ck (East Fork Gila R to headwaters)*

*WQS: unclassified AU: NM-2503\_43*

*Previously listed for temperature and total phosphorous. Values for both parameters are limited to one sample. Because of this limited data set the listing will be changed to Full Support, Impacts Observed based on 1/1 ratios at the stations.*

*1998 ACTION: The reach was removed from the 303(d) list and will be listed as Full Support, Impacts Observed on the 305(b) list.*

*2000 ACTION: None.*

*2002 ACTION: None. According to SWQB staff comments, this reach goes dry. Therefore, the only designated uses that apply are livestock watering and wildlife habitat.*

*2004 ACTION: None.*

TMDL table in Section 5 for that reach. For a list and links to TMDLs statewide, see:

<http://www.nmenv.state.nm.us/SWQB/TMDL/list.html>

A statewide quality assurance plan (QAPP) governs and documents the sampling and data collection procedures followed by NMED SWQB's Monitoring and Assessment Section (MAS) for water quality assessments. The currently available version is the ***Quality Assurance Project Plan for Water Quality Management Programs***:

<http://www.nmenv.state.nm.us/swqb/QAPP/index.html>

- Responsibilities of SWQB's MAS for sampling plan development, data collection, and TMDL development
  - Monitoring/Assessment Section (MAS) integration with Water Protection Section (WPS)

- Quality control procedures and scheduling for sampling and data collection during intensive surveys of streams, lakes, reservoirs, playas
- Development of load limits for impaired reaches
- Relationship with USGS long-term water quality monitoring system

A series of assessment protocols documents SWQB's procedures for accepting, evaluating, and analyzing water quality and other data. The overview of these protocols can be found in the *State of New Mexico Procedures for Assessing Standards Attainment for the Integrated 303(d)/ 305(b) Water Quality Monitoring and Assessment Report: Assessment Protocol* (2008). Links to this document and the individual protocols can be found at:

<http://www.nmenv.state.nm.us/swqb/Protocols/index.html>

## WATERSHED PLANNING AND PARTNERING RESOURCES

### GENERAL WATERSHED PLANNING RESOURCES

EPA watershed planning tools	<a href="http://www.epa.gov/owow/nps/watershed_handbook/">http://www.epa.gov/owow/nps/watershed_handbook/</a>
EPA strategic plan for Region 6	<a href="http://www.epa.gov/region6/stratplan/">http://www.epa.gov/region6/stratplan/</a>
Gila National Forest	<a href="http://fs.usda.gov/wps/portal/!ut/p/.s.7_0_A/7_0_RU4?ss=110306&amp;navtype=forestBean&amp;navid=0910000000000000&amp;pnavid=null&amp;cid=null&amp;ttype=main&amp;pname=Gila%20National%20Forest%20-%20Home">http://fs.usda.gov/wps/portal/!ut/p/.s.7_0_A/7_0_RU4?ss=110306&amp;navtype=forestBean&amp;navid=0910000000000000&amp;pnavid=null&amp;cid=null&amp;ttype=main&amp;pname=Gila%20National%20Forest%20-%20Home</a>
Schedules of proposed actions	<a href="http://www.fs.fed.us/sopa/components/reports/sopa-110306-current.pdf">http://www.fs.fed.us/sopa/components/reports/sopa-110306-current.pdf</a>
Links to all New Mexico <i>Watershed Restoration Action Strategies</i>	<a href="http://www.nmenv.state.nm.us/swqb/WPS/index.html">http://www.nmenv.state.nm.us/swqb/WPS/index.html</a>
New Mexico's comprehensive <i>Forest and Watershed Health Plan</i>	<a href="http://www.emnrd.state.nm.us/FD/FWHPlan/FWHPlanMain.htm">http://www.emnrd.state.nm.us/FD/FWHPlan/FWHPlanMain.htm</a>
<b>Background research/reference:</b>	
New Mexico Water Resources Research Institute (WRII)	<a href="http://wrii.nmsu.edu/">http://wrii.nmsu.edu/</a>
Sustainability of Semi-Arid Hydrology and Riparian Areas (University of Arizona)	<a href="http://www.sahra.arizona.edu/">http://www.sahra.arizona.edu/</a>
Treearch (USDA Forest Service; links to Rocky Mountain Research Stations)	<a href="http://www.treearch.fs.fed.us/">http://www.treearch.fs.fed.us/</a>

## MAPPING RESOURCES

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USGS geographic/geospatial data	<a href="http://edcsns17.cr.usgs.gov/EarthExplorer/">http://edcsns17.cr.usgs.gov/EarthExplorer/</a>
"Status map" of USGS data availability	<a href="http://statgraph.cr.usgs.gov/viewer.htm">http://statgraph.cr.usgs.gov/viewer.htm</a>
National Geodetic Survey tools: data transformation, coordinate or projections conversion	<a href="http://www.ngs.noaa.gov/TOOLS/">http://www.ngs.noaa.gov/TOOLS/</a>
To locate the name of a 7.5-min quad sheet	<a href="http://geonames.usgs.gov/domestic/index.html">http://geonames.usgs.gov/domestic/index.html</a>
Bureau of Land Management geographic/geospatial data (Geocommunicator)	<a href="http://www.geocommunicator.gov/GeoComm/index.shtm">http://www.geocommunicator.gov/GeoComm/index.shtm</a>
US Forest Service Geodata Clearinghouse	<a href="http://svinetfc4.fs.fed.us/">http://svinetfc4.fs.fed.us/</a>
NRCS geographic/geospatial data	<a href="http://datagateway.nrcs.usda.gov/">http://datagateway.nrcs.usda.gov/</a>
New Mexico geospatial data (note: "edge-matching" problems may be associated with some data from this site)	<a href="http://rgis.unm.edu/">http://rgis.unm.edu/</a>
USGS hydrographic data	<a href="http://gos2.geodata.gov/wps/portal/gos">http://gos2.geodata.gov/wps/portal/gos</a>
<b>Subwatershed delineations</b>	
1) The NRCS watershed boundary dataset	<a href="http://www.ncgc.nrcs.usda.gov/products/datasets/watershed/">http://www.ncgc.nrcs.usda.gov/products/datasets/watershed/</a>
2) The National Hydrography Dataset	<a href="http://nhd.usgs.gov/">http://nhd.usgs.gov/</a>
3) Elevation Derivatives for National Applications (currently, the most accurate)	<a href="http://edna.usgs.gov/">http://edna.usgs.gov/</a>

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Many organizations and offices can assist in partnering and collaboration efforts; some offer funding for these efforts. This list provides only a small sample.

#### GENERAL PARTNERING RESOURCES

NMED SWQB's <i>Annual Reports</i> : descriptions of watershed projects and partners on the Gila and throughout the state. Both current and past issues are archived.	<a href="http://www.nmenv.state.nm.us/swqb/WPS/index.html">http://www.nmenv.state.nm.us/swqb/WPS/index.html</a>
Statewide list (as of 1998) of watershed groups/contacts, compiled by NMED SWQB	<a href="ftp://ftp.nmenv.state.nm.us/www/swqb/WPS/WatershedGroups.pdf">ftp://ftp.nmenv.state.nm.us/www/swqb/WPS/WatershedGroups.pdf</a>
Amigos Bravos Resources page	<a href="http://www.amigosbravos.org/resources.php">http://www.amigosbravos.org/resources.php</a>
Community-Based Collaborative Research Consortium	<a href="http://www.cbrc.org/">http://www.cbrc.org/</a>
Greater Flagstaff Forests Partnership	<a href="http://www.gffp.org/">http://www.gffp.org/</a>
National Forest Foundation (the nonprofit partner of USFS)	<a href="http://www.natlforests.org/">http://www.natlforests.org/</a>
New Mexico Riparian Council links page	<a href="http://www.ripariancouncil.org/">http://www.ripariancouncil.org/</a>
The Partnership Resource Center (collaboration with USFS)	<a href="http://www.partnershipresourcecenter.org/policy/index.php">http://www.partnershipresourcecenter.org/policy/index.php</a>
Red Lodge Clearinghouse	<a href="http://rlch.org">http://rlch.org</a>
The Society of American Foresters <i>Handbook for Preparing a Community Wildfire Plan</i> includes partnership suggestions useful for watershed-based planning	<a href="http://www.safnet.org/lp/cwpphandbook.pdf">http://www.safnet.org/lp/cwpphandbook.pdf</a>
Western Collaboration Assistance Network (collaboration coaching, mentoring, and "specialized technical assistance").	<a href="http://www.westcanhelp.org">http://www.westcanhelp.org</a>

**LOCAL/REGIONAL PARTNERING AND TECHNICAL RESOURCES**

There is a broad collection of agencies, organizations, and individuals on the Gila watershed whose work, directly or indirectly, affects watershed condition. The following pages provide contact and other information on federal and state agencies and local organizations to assist in planning and partnership efforts. Descriptions are taken from material published by each organization. See pp. 27–30 for more information on the federal and state agencies listed.

**AGENCIES: FEDERAL**

<b>Agency and description</b>	<b>Phone</b>	<b>Website(s)</b>
US Army Corps of Engineers (ACOE) Responsible for Section 404 permitting of dredging and discharge (or fill) work affecting surface waters.	(505)342-3283 (Albuquerque)	<a href="http://www.spa.usace.army.mil/reg/default.asp">http://www.spa.usace.army.mil/reg/default.asp</a> <a href="http://www.usace.army.mil">http://www.usace.army.mil</a> (national)
USDA Farm Service Agency Farm Bill updates, conservation programs, drought programs, fact sheets	(505) 761-4900	<a href="http://www.fsa.usda.gov/FSA">http://www.fsa.usda.gov/FSA</a> (national; links to state and county offices)
USDA Forest Service – Gila National Forest <b>Ranger Districts:</b> Black Range RD (T or C) Glenwood RD (Glenwood) Quemado RD (Quemado) Reserve RD (Reserve) Silver City RD (Supervisor’s Office) Wilderness RD (Mimbres)	(505) 894-6677 (505) 539-2481 (505) 773-4678 (505) 533-6232 (505) 388-8201 (505) 536-2250	<a href="http://fs.usda.gov/wps/portal/!ut/p/ s.7 0 A/7 0 RU4?ss=1 10306&amp;navtype=forestBean&amp;navid=09100000000000&amp;pnavid=null&amp;cid=null&amp;ttype=main&amp;pname=Gila%20National%20Forest%20-%20Home">http://fs.usda.gov/wps/portal/!ut/p/ s.7 0 A/7 0 RU4?ss=1 10306&amp;navtype=forestBean&amp;navid=09100000000000&amp;pnavid=null&amp;cid=null&amp;ttype=main&amp;pname=Gila%20National%20Forest%20-%20Home</a> (main site; links to Ranger District sites and all programs)

<p>USDA Natural Resource Conservation Service (NRCS)</p> <p>Technical information, consultation, and financial assistance to farmers and ranchers.</p> <ul style="list-style-type: none"> <li>▪ Silver City (Grant and San Francisco SWCDs) (505)388-1569</li> <li>▪ Lordsburg (Hidalgo SWCD) (505)542-9141</li> <li>▪ T or C (Sierra SWCD) (505)894-2212</li> </ul>	<p><a href="http://www.nrcs.usda.gov">http://www.nrcs.usda.gov</a> (national)</p> <p><a href="http://www.nm.nrcs.usda.gov">http://www.nm.nrcs.usda.gov</a> (New Mexico)</p> <p><a href="http://www.nm.nrcs.usda.gov/programs">http://www.nm.nrcs.usda.gov/programs</a></p>
<p>Los Lunas Plant Materials Center</p> <p>Develops, tests and transfers native plants that can help solve conservation problems.</p>	<p>(505) 865-4684 <a href="http://www.nm.nrcs.usda.gov/programs/pmc.html">http://www.nm.nrcs.usda.gov/programs/pmc.html</a></p>
<p>Black Range RC&amp;D (division of NRCS)</p> <p>A nonprofit organization serving Grant, Catron, Luna and Hidalgo counties. Locally elected volunteers plan and carry out projects for resource conservation and community development. NRCS provides technical and financial assistance and additional funding comes through developed projects.</p>	<p>(505)388-9566 x 5 (Silver City) <a href="http://www.nm.nrcs.usda.gov/programs/rcd/blkrange.html">http://www.nm.nrcs.usda.gov/programs/rcd/blkrange.html</a></p> <p><a href="http://www.rcdnet.org">http://www.rcdnet.org</a> (national)</p>
<p>US EPA (Region 6)</p> <p>Responsible for coordinating CWA programs, including §319, through NMED SWQB</p>	<p>(800)887-6063 (Dallas) <a href="http://epa.gov/region6/index.htm">http://epa.gov/region6/index.htm</a></p>
<p>US Fish &amp; Wildlife Service (Region 2)</p> <p>Manages Partners for Wildlife, Safe Harbor, and other recovery/funding programs</p>	<p>(505)346-2525 (Albuquerque) <a href="http://www.fws.gov/southwest/es/NewMexico/PFW_home.cfm">http://www.fws.gov/southwest/es/NewMexico/PFW_home.cfm</a> (Ecological Services, Albuquerque)</p> <p><a href="http://www.fws.gov/southwest">http://www.fws.gov/southwest</a> (Region 2)</p>
<p>US Geological Survey</p> <p>Streamflow and irrigation diversion records; other data resources</p>	<p>(505) 830-7900 (Albuquerque) <a href="http://waterdata.usgs.gov/nm/nwis/sw">http://waterdata.usgs.gov/nm/nwis/sw</a> <a href="http://nm.water.usgs.gov">http://nm.water.usgs.gov</a></p>
<p>USDI Bureau of Reclamation (BOR)</p>	<p><a href="http://www.usbr.gov/lc">http://www.usbr.gov/lc</a> (Lower Colorado region)</p>

**AGENCIES: STATE/COUNTY/LOCAL**

<b>Agency and description</b>	<b>Phone</b>	<b>Website(s)</b>
New Mexico Association of Counties		<a href="http://www.nmcounties.org">http://www.nmcounties.org</a>
County governments/commissions		
Catron	(505)533-6423	<a href="https://mylocalgov.com/catroncountynm">https://mylocalgov.com/catroncountynm</a>
Grant	(505)574-0021	<a href="http://www.grantcountynm.com">http://www.grantcountynm.com</a>
Hidalgo	(505)542-9428	<a href="http://www.hidalgocounty.org">http://www.hidalgocounty.org</a>
Sierra	(505)894-5961	<a href="https://mylocalgov.com/sierracountynm">https://mylocalgov.com/sierracountynm</a>
Local: communities of Alma, Apache Creek, Cliff, Gila, Glenwood, Luna, Pines Altos, Pleasanton, Red Rock, Reserve, Riverside, Virden		<a href="http://newmexico.hometownlocator.com/nm/catron">http://newmexico.hometownlocator.com/nm/catron</a>
Town of Silver City	(505)538-3731	<a href="http://www.townofsilvercity.org">http://www.townofsilvercity.org</a>
New Mexico Department of Agriculture		
Agriculture producer-consumer service and regulatory department, providing technical and administrative resources and planning assistance to SWCDs and the agricultural industry. Responsible for market expansion for New Mexico products, including livestock and processed foods.	(505)646-3007 (Las Cruces)	<a href="http://nmdaweb.nmsu.edu">http://nmdaweb.nmsu.edu</a>
New Mexico Department of Game and Fish –Santa Fe	(505)476-8000	<a href="http://www.wildlife.state.nm.us">http://www.wildlife.state.nm.us</a>
Wildlife management, including the <a href="#">Comprehensive Wildlife Conservation Strategy, Habitat Stamp and Sikes Fund program; funds used for habitat conservation and rehabilitation projects.</a>		
Las Cruces office	(505)532-2100	

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New Mexico Energy, Minerals, and Natural Resources Department (EMNRD)		<a href="http://www.emnrd.state.nm.us/MAIN/Index.htm">http://www.emnrd.state.nm.us/MAIN/Index.htm</a> (EMNRD main)
Main (Santa Fe)	(505)476-3200	
State Forestry Division (NMSF) is responsible for wildfire suppression on all non-federal/non-municipal lands. NMSF provides technical advice on forest and resource management to private landowners.	(505)476-3325 (Santa Fe)	<a href="http://www.emnrd.state.nm.us/FD/index.htm">http://www.emnrd.state.nm.us/FD/index.htm</a> (State Forestry)
	(505)662-1785	

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NM Environment Department-Surface Water Quality Bureau		
Santa Fe (see Water Quality Resources section)	(505)827-0187	<a href="http://www.nmenv.state.nm.us/swqb">http://www.nmenv.state.nm.us/swqb</a> (main)
Wetlands Office	(505)827-0581	<a href="http://www.nmenv.state.nm.us/swqb/Wetlands">http://www.nmenv.state.nm.us/swqb/Wetlands</a>
SWQB WPS, Silver City	(505)388-0599	

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New Mexico Department of Transportation	(505) 827-5100	<a href="http://nmshtd.state.nm.us">http://nmshtd.state.nm.us</a> (statewide)
Environmental Design Bureau	(505)827-5223	<a href="http://www.nmshtd.state.nm.us/main.asp?secid=14482">http://www.nmshtd.state.nm.us/main.asp?secid=14482</a>

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New Mexico Soil & Water Conservation Districts (SWCD)		
SWCDs provide local assistance to establish watershed management associations, develop watershed action plans, and provide water stewardship education to private landowners.		
National	(202)547-6223	<a href="http://www.nacdnet.org">http://www.nacdnet.org</a>
New Mexico	(505)981-2400	<a href="http://www.nacdnet.org/about/districts/directory/nm.phtml">http://www.nacdnet.org/about/districts/directory/nm.phtml</a>
Watershed SWCDs (with selected project information):		
Grant (§319 Mangas Creek/Burros rehabilitation)	(505)388-1569	
Hidalgo	(505)542-9141	
San Francisco (Long-Term Planning; Whitewater Creek improvement; NRCS Conservation Partnership Initiative)	(505)539-2473	<a href="http://www.gilanet.com/sfswcd">http://www.gilanet.com/sfswcd</a>
Sierra (§319 WRAS and project development, Taylor Creek)	(505)894-2212	<a href="http://www.sierrasoil.org">http://www.sierrasoil.org</a>

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New Mexico State Land Office (SLO)	(505)827-5760	<a href="http://www.nmstatelands.org">http://www.nmstatelands.org</a>
SLO is responsible for managing state trust lands and the derived mineral and lease royalties.		

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Office of the State Engineer/Interstate Stream Commission (505)827-6120 <http://www.ose.state.nm.us>

The Office of the State Engineer is charged with administering the state's water resources. The State Engineer has power over the supervision, measurement, appropriation, and distribution of all surface and groundwater in New Mexico, including streams and rivers that cross state boundaries. The State Engineer is also Secretary of the Interstate Stream Commission.

Arizona Water Settlement Act and Gila-San Francisco Coordinating Committee

[http://www.ose.state.nm.us/isc\\_colorado\\_gila\\_san\\_fran\\_committee.html](http://www.ose.state.nm.us/isc_colorado_gila_san_fran_committee.html)

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**NONPROFIT ORGANIZATIONS / SCHOOLS**

Projects listed are local or watershed-specific and are provided for cross-reference; they are not necessarily comprehensive. To add an organization or additional information to this listing, contact the information coordinator, David Menzie: (575) 956-1548, [David.Menzie@state.nm.us](mailto:David.Menzie@state.nm.us).

<b>Organization, description, project work</b>	<b>Phone</b>	<b>Website(s) and/or location</b>
Catron County Citizen's Group	(505) 539-2745	Glenwood, Reserve
Cattlegrowers' Association Beef/dairy cattle producers support	(505) 247-0584	<a href="http://www.nmagriculture.org">www.nmagriculture.org</a> (state) <a href="http://www.rcdnet.org">www.rcdnet.org</a> (national)
Center for Biological Diversity (CBD) Protection of endangered species and habitats; CFRP	(520) 623-5252	<a href="http://www.biologicaldiversity.org">www.biologicaldiversity.org</a>
Continental Divide Trail Alliance (CDTA) Continental Divide trail improvement	(888) 909-2382	<a href="http://www.cdtrail.org/page.php">www.cdtrail.org/page.php</a>
Environmental Education Association of New Mexico Network for improving and promoting state environmental education	(505) 883-3314	<a href="http://www.eeanm.org">http://www.eeanm.org</a>
Gila Conservation Coalition (GCC) Protection of Gila and San Francisco River flow; Gila River Festival; Arizona Water Settlement Act education Also see Gila Resources Information Project, Upper Gila Watershed Alliance, Center for Biological Diversity	(505) 388-3763	<a href="http://www.gilaconservation.org">www.gilaconservation.org</a>
Gila Conservation Education Center (GCEC) Natural resource conservation education and involvement; partnership facilitation among conservation groups, schools, and local citizens. Volunteer-supported natural resource trunk program for public schools, education/monitoring on CFRP and other projects; Children's Water Festival	(505) 388-8265 (505) 388-8266	<a href="http://gcecnm.org">http://gcecnm.org</a>

Native Plant Society of New Mexico Gila Native Plant Society (Silver City) Conservation of the native flora of New Mexico	(505) 538-5192	<a href="http://npsnm.unm.edu">http://npsnm.unm.edu</a> (state-wide) <a href="http://npsnm.unm.edu/gila.html">http://npsnm.unm.edu/gila.html</a>
Gila Resources Information Project (GRIP) Public information/participation in resource use, including mining reclamation issues	(505) 538-8078	<a href="http://www.gilaresources.info">www.gilaresources.info</a>
Gila Watershed Partnership of Arizona		<a href="http://www.water.az.gov/watershed/content/map/UppGil.htm">www.water.az.gov/watershed/content/map/UppGil.htm</a> Safford, AZ
Gila Watershed Partnership of New Mexico (GWP) SWQB, Silver City Watershed information coordinator §319 WIPS development and updates; technical, data, liaison resources; Black Canyon Creek Gila trout project	(505) 388-0599 (928) 310-8955	--
Gila WoodNet (§319 and CFRP; small-diameter wood products; affiliated with Grant County Jobs & Biodiversity Coalition)	(505) 537-3250	<a href="http://www.gilawoodnet.com">www.gilawoodnet.com</a>
Irrigation districts		Contact local SWCD for more information
New Mexico Chapter of The Nature Conservancy (TNC) SW New Mexico office Biodiversity preservation; §319 Gila Riparian BMP project	(505) 988-3867 (505) 538-9700	<a href="http://www.nature.org/wherewework/northamerica/states/newmexico">www.nature.org/wherewework/northamerica/states/newmexico</a>
New Mexico Science Teachers Association Network for improving science education	(505) 883-3114	<a href="http://www.nmsta.org">http://www.nmsta.org</a>
New Mexico State University Cooperative Service NMSU Agricultural Extension education outreach branch: plant sciences; soil/water testing; certified weed-free forage/mulch program)	(505) 646-4511	<a href="http://aces.nmsu.edu/county">http://aces.nmsu.edu/county</a> (links to individual county extension offices)
New Mexico Volunteers for Outdoors	(505) 884-1991	<a href="http://www.nmvfo.org">www.nmvfo.org</a>

New Mexico Wilderness Alliance New Mexico wilderness protection, restoration, designation	(505) 843-8696	<a href="http://nmwild.org">http://nmwild.org</a>
Quivira Coalition Networking/education capacity building centered on ecologically-based ranching; riparian/upland rehabilitation, grazing management	(505) 820-2544	<a href="http://www.quiviracoalition.org">www.quiviracoalition.org</a>
River Source Enhancement of productive community–watershed relationships through education and networking support for watershed monitoring programs	(505) 660-7928	<a href="http://riversource.net/index.php?option=com_frontpage&amp;Itemid=1">http://riversource.net/index.php?option=com_frontpage&amp;Itemid=1</a>
Rocky Mountain Elk Foundation Protection of enhancement of wildlife/elk habitat, funding for conservation education and stewardship, hunting heritage programs	(800) 225-5355	<a href="http://www.rmef.org">www.rmef.org</a>
San Francisco River Association (SFRA) Native plant nursery; riparian rehabilitation; §319 Pleasanton/San Francisco River Restoration and Outreach; CFRP; Whitewater Creek rehabilitation; Conservation Partnership Initiative See also SF SWCD	(505) 539-2033	Glenwood
Schools: Regional public school districts Cobre Consolidated Reserve Independent Silver Consolidated Aldo Leopold (charter) High School	(505) 537-4011 (505) 533-6241 (505) 956-2002 (505) 538-2547	<a href="http://www.aldoleopoldhs.org/index.shtml">http://www.aldoleopoldhs.org/index.shtml</a>
Southwestern New Mexico Audubon Society Natural history public education, field trips, GCEC trunk program partner		<a href="http://www.swnmaudubon.org">http://www.swnmaudubon.org</a>
Taylor Creek Watershed Committee §319 WRAS and remediation project development	(505) 894-2212	<a href="http://www.sierrasoil.org">http://www.sierrasoil.org</a>

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Trout Unlimited CFRP (NEPA for prescribed burns; fish crossings)	703-522-0200	<a href="http://www.tu.org">www.tu.org</a> (national)
Upper Gila Watershed Alliance Watershed protection, community-based stewardship; §319 and CFRP projects; Burros Mountains riparian restoration, travel management planning, Gila River Festival	(505)535-2519	<a href="http://www.ugwa.org/index.shtml">http://www.ugwa.org/index.shtml</a>
The Volunteer Center of Grant County Mobilizes volunteers in support of Grant County community programs	(505)388-2988	<a href="http://www.volunteersofgrantcounty.org">www.volunteersofgrantcounty.org</a>
Western New Mexico State University	505 538-6011	<a href="http://www.wnmu.edu">http://www.wnmu.edu</a>

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## MANAGEMENT PRACTICE RESOURCES

The local and regional resources described above can provide technical planning and assistance in implementing management practices (MPs) appropriate for this region. The listing that follows provides additional resources and materials for MP design and implementation; resources are ordered to approximate their organization in Section 6.

### General Management Practice Resources

Agency/organization, description	Website(s)
EPA Management Measures Guidance documents	<a href="http://www.epa.gov/owow/nps/pubs.html">www.epa.gov/owow/nps/pubs.html</a>
Bureau of Land Management MPs	<a href="http://www.blm.gov/wo/st/en/prog/energy/oil_and_gas/best_management_practices/technical_information.html">http://www.blm.gov/wo/st/en/prog/energy/oil_and_gas/best_management_practices/technical_information.html</a>
NMED SWQB <i>Nonpoint Source Management Program</i> (1999); Appendix C contains an extensive bibliography of materials on NPS management practices	<a href="http://www.nmenv.state.nm.us/swqb/NPS_Management_Plan-1999.pdf">http://www.nmenv.state.nm.us/swqb/NPS_Management_Plan-1999.pdf</a>
NRCS National Handbook of Conservation Practices	<a href="http://www.nrcs.usda.gov/technical/standards/nhcp.html">www.nrcs.usda.gov/technical/standards/nhcp.html</a>
For specific MP details, see the Utah Department of Environmental Quality's website (TetraTech, 2004)	<a href="http://www.waterquality.utah.gov/TMDL/Sevier_River_TMDL_Appendix_A.pdf">http://www.waterquality.utah.gov/TMDL/Sevier_River_TMDL_Appendix_A.pdf</a>
NEMO Network Manual of Best Management Practices	<a href="http://www.srn.arizona.edu/nemo/index.php?page=bmpmanual">http://www.srn.arizona.edu/nemo/index.php?page=bmpmanual</a>

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## Streams/Riparian Areas/Gullies/Wetlands

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Association of State Wetland Managers: ASWM guides for nonprofits and the public	<a href="http://aswm.org">http://aswm.org</a> <a href="http://www.aswm.org/pub/brochures2006.htm">http://www.aswm.org/pub/brochures2006.htm</a>
Army Corps of Engineers (wetlands delineation and other manuals)	<a href="http://el.erdc.usace.army.mil/wetlands/wlpubs.html">http://el.erdc.usace.army.mil/wetlands/wlpubs.html</a>
Bureau of Land Management Advisory Riparian Service Team (technical assistance and onsite consultation) RESTORE - an aggressive partnership to restore our state's grasslands, woodlands and riparian areas to a healthy and productive condition.	<a href="http://www.blm.gov/or/programs/nrst">http://www.blm.gov/or/programs/nrst</a> <a href="http://www.blm.gov/nm/st/en/prog/restore_new_mexico.html">http://www.blm.gov/nm/st/en/prog/restore_new_mexico.html</a>
Center for Watershed Protection wetlands information	<a href="http://www.cwp.org/wetlands">http://www.cwp.org/wetlands</a>
ECBar Ranch (Nutrioso, AZ)	<a href="http://www.ecbarranch.com/conservation.html">http://www.ecbarranch.com/conservation.html</a>
Environmental Law Institute (policy, practice, and wetlands resources)	<a href="http://www2.eli.org/nwa/nwaprogram.htm">http://www2.eli.org/nwa/nwaprogram.htm</a>
EPA summaries of Section 404 permitting requirements	<a href="http://www.epa.gov/owow/wetlands/pdf/reg_authority_pr.pdf">http://www.epa.gov/owow/wetlands/pdf/reg_authority_pr.pdf</a> <a href="http://www.epa.gov/owow/wetlands/regs">http://www.epa.gov/owow/wetlands/regs</a>
Federal Interagency Stream Corridor Restoration Working Group: Stream Corridor Restoration handbook	<a href="http://www.nrcs.usda.gov/technical/stream_restoration">http://www.nrcs.usda.gov/technical/stream_restoration</a>
NRCS PLANTS database Los Lunas Plants Materials Center Patuxent Wildlife Research Center (trainings, assessments, resources)	<a href="http://plants.usda.gov">http://plants.usda.gov</a> <a href="http://www.nm.nrcs.usda.gov/programs/pmc.html">http://www.nm.nrcs.usda.gov/programs/pmc.html</a> <a href="http://www.pwrc.usgs.gov">http://www.pwrc.usgs.gov</a>

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Quivira Coalition	
Management practice handbooks	<a href="http://quiviracoalition.org/Land_Health/Publications">http://quiviracoalition.org/Land_Health/Publications</a>
New Ranch Network (MP resource and practitioner network)	<a href="http://www.newranch.net">http://www.newranch.net</a>
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Tamarisk Coalition	<a href="http://www.tamariskcoalition.org/tamariskcoalition">http://www.tamariskcoalition.org/tamariskcoalition</a>
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Tree New Mexico River Rescue	<a href="http://www.treenm.com">http://www.treenm.com</a>
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USDA Stream Systems Technology Center (technical resources and references)	<a href="http://www.stream.fs.fed.us">http://www.stream.fs.fed.us</a>
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USFWS T&E Species System	<a href="http://ecos.fws.gov/tess_public">http://ecos.fws.gov/tess_public</a>
Landowner protections/assurances	<a href="http://www.fws.gov/endangered/landowner">http://www.fws.gov/endangered/landowner</a>
Locally implemented assurances (e.g., Safe Harbor Agreements, Habitat Conservation Plans)	<a href="http://ecos.fws.gov/conserv_plans/servlet/gov.doi.hcp.servlets.PlanSelect">http://ecos.fws.gov/conserv_plans/servlet/ gov.doi.hcp.servlets.PlanSelect</a>
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US FWS wetland data, assessment tools, plant lists	<a href="http://www.fws.gov/wetlands">http://www.fws.gov/wetlands</a>
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## Roads/Travel Management

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Bureau of Land Management travel planning	<a href="http://www.fs.fed.us/recreation/programs/ohv/blm_strategies.pdf">http://www.fs.fed.us/recreation/programs/ohv/blm_strategies.pdf</a>
Gila National Forest Travel management planning summary	<a href="http://fs.usda.gov/wps/portal/!ut/p/.s.7.0.A/7.0.RU6?navtype=BROWSEBYSUBJECT&amp;cid=stelprdb5035773&amp;navid=1800000000000000&amp;pnavid=null&amp;ss=110306&amp;position=Project.Html&amp;ttype=detail&amp;pname=Gila%20National%20Forest-%20News">http://fs.usda.gov/wps/portal/!ut/p/.s.7.0.A/7.0.RU6?navtype=BROWSEBYSUBJECT&amp;cid=stelprdb5035773&amp;navid=1800000000000000&amp;pnavid=null&amp;ss=110306&amp;position=Project.Html&amp;ttype=detail&amp;pname=Gila%20National%20Forest-%20News</a>
Quivira Coalition Management practice handbooks	<a href="http://quiviracoalition.org/Land_Health/Publications/index.html">http://quiviracoalition.org/Land_Health/Publications/index.html</a>

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## Uplands/Herbaceous Cover/Weeds

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Gila NF Range Management Project/Plans	<a href="http://www2.srs.fs.fed.us/r3/gila/projects/prorange.asp#docs">http://www2.srs.fs.fed.us/r3/gila/projects/prorange.asp#docs</a>
Global Invasive Species Initiative (TNC control tools and evaluations, outreach information, Weed Information Management system)	<a href="http://tncweeds.ucdavis.edu/control.html">http://tncweeds.ucdavis.edu/control.html</a>
Weed control handbook	<a href="http://tncweeds.ucdavis.edu/handbook.html">http://tncweeds.ucdavis.edu/handbook.html</a>
Malpai Borderlands Group	<a href="http://www.malpaiborderlandsgroup.org">http://www.malpaiborderlandsgroup.org</a>
New Mexico Department of Transportation Vegetation Management Program	<a href="http://www.nmshtd.state.nm.us/main.asp?secid=11414">http://www.nmshtd.state.nm.us/main.asp?secid=11414</a>

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New Mexico State University weeds site	<a href="http://weeds.nmsu.edu">http://weeds.nmsu.edu</a>
Weed-free seed/mulch/forage certification, NMSU Extension Service	<a href="http://spectre.nmsu.edu/dept/academic.html?i=683">http://spectre.nmsu.edu/dept/academic.html?i=683</a>
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NRCS	
PLANTS database	<a href="http://plants.usda.gov">http://plants.usda.gov</a>
Los Lunas Plants Materials Center	<a href="http://www.nm.nrcs.usda.gov/programs/pmc.html">http://www.nm.nrcs.usda.gov/programs/pmc.html</a>
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Quivira Coalition	
New Ranch Network (partnering and MP resource connections)	<a href="http://www.newranch.net">http://www.newranch.net</a>
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Society for Range Management publications	<a href="http://www.rangelands.org/publications.shtml">http://www.rangelands.org/publications.shtml</a>
Archived papers available through U. of AZ link	
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USFWS recommendations for spring development and livestock watering	<a href="http://www.fws.gov/southwest/es/NewMexico/SBC_NM_rec.cfm?pr=sdl">http://www.fws.gov/southwest/es/NewMexico/SBC_NM_rec.cfm?pr=sdl</a>
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USGS Southwest Exotic Plant Information Clearinghouse	<a href="http://www.usgs.nau.edu/SWEPIC">http://www.usgs.nau.edu/SWEPIC</a>
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**Prescribed Thinning/Burning and Wildland Fire**

Collaborative Forest Restoration	<a href="http://www.fs.fed.us/r3/spf/cfrp">http://www.fs.fed.us/r3/spf/cfrp</a>
Forest Guild Worker Safety Certification program (lowers Workers' Compensation insurance rates on thinning projects)	<a href="http://www.forestguild.org/index.htm">http://www.forestguild.org/index.htm</a>
Gila NF Forest Management Projects and Plans	<a href="http://www2.srs.fs.fed.us/r3/gila/projects/proforest.asp">http://www2.srs.fs.fed.us/r3/gila/projects/proforest.asp</a>
State and Private Forestry links from GNF	<a href="http://www.fs.fed.us/spf">http://www.fs.fed.us/spf</a>
USDA Economic Action, Forest Products, Landowner Assistance, and Urban Forestry Programs	<a href="http://www.fs.fed.us/r6/coop/index.htm">http://www.fs.fed.us/r6/coop/index.htm</a>

Bureau of Land Management Fire Program Analysis	<a href="http://www.fpa.nifc.gov">http://www.fpa.nifc.gov</a>
Firewise Communities (WUI planning)	<a href="http://www.firewise.org">http://www.firewise.org</a>
Gila National Forest Wildland Fire/Wildland Fire Use	<a href="http://www.fs.fed.us/r3/gila">www.fs.fed.us/r3/gila</a>
NACD Forest Resource committee	<a href="http://forestry.nacdnet.org">http://forestry.nacdnet.org</a>
Handbook for Preparing a Community Wildlife Protection Plan	<a href="http://www.safnet.org/policyandpress/cwpp.cfm">www.safnet.org/policyandpress/cwpp.cfm</a>
National Fire Plan	<a href="http://www.fireplan.gov">http://www.fireplan.gov</a>
National Wildfire Coordinating Group	<a href="http://www.nwcg.gov/teams/wfewt/biblio/index.htm">http://www.nwcg.gov/teams/wfewt/biblio/index.htm</a>
New Mexico Association of Counties (links to all state fire resources)	<a href="http://www.nmcounties.org/wildfire.html">http://www.nmcounties.org/wildfire.html</a>
NM State Forestry link to New Mexico Fire Plan	<a href="http://www.emnrd.state.nm.us/fd/FireMgt/Fire.htm">http://www.emnrd.state.nm.us/fd/FireMgt/Fire.htm</a>

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### Education/Outreach

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Ecological Restoration Institute curriculum for students engaged in CFRP multi-party monitoring	<a href="https://library.eri.nau.edu:8443/handle/2019/326">https://library.eri.nau.edu:8443/handle/2019/326</a>
Natural Heritage New Mexico	<a href="http://nhnm.unm.edu/index.html">http://nhnm.unm.edu/index.html</a>
New Mexico Department of Game and Fish Project Wild	<a href="http://www.wildlife.state.nm.us/education/project_wild.htm">http://www.wildlife.state.nm.us/education/project_wild.htm</a>
New Mexico Outdoor Education Initiative	<a href="http://outdoor.riversource.net/bin/view/Outdoor">http://outdoor.riversource.net/bin/view/Outdoor</a>
NMSU/NMDGF Comprehensive Wildlife Conservation Strategy for New Mexico	<a href="http://fws-nmcfwru.nmsu.edu/cwcs/default.htm">http://fws-nmcfwru.nmsu.edu/cwcs/default.htm</a>
New Mexico Watershed Watch	<a href="http://riversource.net/index.php?option=com_content&amp;task=view&amp;id=4&amp;Itemid=98">http://riversource.net/index.php?option=com_content&amp;task=view&amp;id=4&amp;Itemid=98</a>
Think New Mexico Strategic River Reserve	<a href="http://www.thinknewmexico.org/river.html">http://www.thinknewmexico.org/river.html</a>
Tree New Mexico public training sessions	<a href="http://www.treenm.com/Programs.htm#Trainings">http://www.treenm.com/Programs.htm#Trainings</a>

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<b>MONITORING/MODELING RESOURCES</b>
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**General and riparian**

River Source statewide riparian QAPP/riparian monitoring tools Links to other monitoring programs and tools	<a href="http://riversource.net/index.php?option=com_frontpage&amp;Itemid=1">http://riversource.net/index.php?option=com_frontpage&amp;Itemid=1</a> <a href="http://riversource.net/index.php?option=com_weblinks&amp;Itemid=4&amp;catid=17">http://riversource.net/index.php?option=com_weblinks&amp;Itemid=4&amp;catid=17</a>
USDA Stream Systems Technology Center (monitoring software and technical resources)	<a href="http://www.stream.fs.fed.us/index.html">http://www.stream.fs.fed.us/index.html</a>
USFS Rocky Mountain Research Station riparian vegetation monitoring	<a href="http://www.fs.fed.us/rm/pubs/rmrs_gtr047.pdf">http://www.fs.fed.us/rm/pubs/rmrs_gtr047.pdf</a>

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**Hydrology/water quality**

EPA Technical Tools for Watershed Managers	<a href="http://www.epa.gov/owow/watershed/tools">http://www.epa.gov/owow/watershed/tools</a>
NRCS water quality monitoring and modeling tools, databases, and other resources	<a href="http://www.nm.nrcs.usda.gov/technical/water/wq.html">http://www.nm.nrcs.usda.gov/technical/water/wq.html</a> <a href="http://www.wcc.nrcs.usda.gov/hydro/hydro-tools-models.html">http://www.wcc.nrcs.usda.gov/hydro/hydro-tools-models.html</a>
STORET database access	<a href="http://www.epa.gov/storet/index.html">http://www.epa.gov/storet/index.html</a>
USGS streamflow data, New Mexico	<a href="http://waterdata.usgs.gov/nm/nwis/nwis">http://waterdata.usgs.gov/nm/nwis/nwis</a>
Establishing a water quality monitoring program	<a href="#">Contact NMED SWQB, Silver City</a>

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**Other vegetation cover**

CFRP Multiparty Monitoring guidelines handbooks	<a href="http://www.fs.fed.us/r3/spf/cfrp/monitoring">http://www.fs.fed.us/r3/spf/cfrp/monitoring</a>
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Forest Ecosystem Restoration Analysis (through NAU)	<a href="http://www.forestera.nau.edu">http://www.forestera.nau.edu</a>
Bureau of Land Management	
<i>Interpreting Indicators of Rangeland Health</i>	<a href="http://www.blm.gov/nstc/library/techref.htm">www.blm.gov/nstc/library/techref.htm</a>
<i>Measuring and Monitoring Plant Populations</i>	<a href="http://www.blm.gov/nstc/library/techref.htm">http://www.blm.gov/nstc/library/techref.htm</a>
<b>Runoff/erosion models and supporting data</b>	
RUSLE documentation, training, software	<a href="http://www.ars.usda.gov/Research/docs.htm?docid=6010">http://www.ars.usda.gov/Research/docs.htm?docid=6010</a>
Office of Technology Transfer RUSLE documents	<a href="http://www.ott.wrcc.osmre.gov/library/hbmanual/rusle.htm">http://www.ott.wrcc.osmre.gov/library/hbmanual/rusle.htm</a>
NRCS TR-55 runoff model software/documentation	<a href="http://www.wcc.nrcs.usda.gov/hydro/hydro-tools-models-wintr55.html">http://www.wcc.nrcs.usda.gov/hydro/hydro-tools-models-wintr55.html</a>
NRCS WIN-20 runoff model software/documentation (watersheds > 25 sq. mi)	<a href="http://www.wcc.nrcs.usda.gov/hydro/hydro-tools-models-wintr20.html">http://www.wcc.nrcs.usda.gov/hydro/hydro-tools-models-wintr20.html</a>
National Climate Data Center	<a href="http://www.ncdc.noaa.gov/oa/mppsearch.html">http://www.ncdc.noaa.gov/oa/mppsearch.html</a>
Western Regional Climate Center station and data lists	<a href="http://www.wrcc.dri.edu/CLIMATEDATA.html">http://www.wrcc.dri.edu/CLIMATEDATA.html</a>
Snow information	<a href="http://www.wcc.nrcs.usda.gov/snotel/New_Mexico/new_mexico.html">http://www.wcc.nrcs.usda.gov/snotel/New_Mexico/new_mexico.html</a>
<a href="http://websoilsurvey.nrcs.usda.gov/app">NRCS soil survey mapping tools and database</a>	<a href="http://websoilsurvey.nrcs.usda.gov/app">http://websoilsurvey.nrcs.usda.gov/app</a>
	<a href="http://soils.usda.gov">http://soils.usda.gov</a>
<a href="http://eisnr.tucson.ars.ag.gov/HillslopeErosionModel">Hillslope Erosion Model (HEM)/references</a>	<a href="http://eisnr.tucson.ars.ag.gov/HillslopeErosionModel">http://eisnr.tucson.ars.ag.gov/HillslopeErosionModel</a>

## **AGENCY AND PROGRAM DESCRIPTIONS**

Program descriptions and NPS categories for which each program is best suited are excerpted from the *New Mexico Nonpoint Source Management Program* (NMED, 1999).

### **USDA Forest Service**

**NPS categories to be addressed: Rangeland and Grazing/Wildlife Management, Silviculture, Recreation, Construction, Resource Extraction.**

USFS manages approximately 8.5 million acres in New Mexico. These lands include approximately 1,700 miles of the State's 2,000 miles of high quality mountain streams. USFS is a designated management agency for NPS control in New Mexico. Their responsibilities include control, abatement, and prevention of NPS pollution resulting from all activities conducted in National Forests. Water quality concerns identified in National Forests include sediment and nutrient inputs from grazing and foraging activities, road construction and maintenance, timber harvest, and mining. Recreation impacts, largely related to sediment and litter impacts, occur in virtually all easily accessible lakes and along many accessible streams.

### **USDA Farm Service Agency**

**NPS categories to be addressed: Agriculture**

FSA is responsible for administering the federal Conservation Reserve Program (CRP) and Conservation Reserve Enhancement Program (CREP). CRP encourages farmers to protect their most fragile farmland and marginal pastureland by conserving and improving soil, water, and wildlife resources. Farmers and ranchers are eligible for cost-share assistance for conservation on agricultural land to convert highly erodible and other environmentally sensitive acreage devoted to production of agricultural commodities to long term approved cover. Producers enrolled in CRP are also offered annual rental payments and incentives for providing these conservation measures. Practices eligible for cost-share are those selected by farmer-elected County Committee members from a list approved by State FSA Committees and the Secretary of Agriculture. Converting highly erodible and/or environmentally sensitive cropland to permanent vegetative cover under the CRP has created significant improvements in water quality across the nation. According to the NRCS, each acre under CRP contract reduces erosion by an average of 19 tons of topsoil a year. This improves the quality of water in streams, lakes, and other bodies of water not only by reducing sediment, but also by reducing the amount of nutrients and pesticides swept into bodies of water along with topsoil. Producers who enroll acreage in CRP greatly reduce their application of pesticides and nutrients on these acres, thereby reducing runoff containing excess agricultural pesticides and nutrients.

### **USDA Natural Resources Conservation Service**

**NPS categories to be addressed: Agriculture, Rangeland and Grazing/Wildlife Management, Recreation, Resource Extraction**

NRCS, through programs such as EQIP, Conservation Technical Assistance (CTA) and others, provides technical, educational, and financial assistance to landowners and operators to assist them in implementing practices for sound natural resource use and management. Assistance is provided for all types of land uses, which NRCS categorizes as follows: commercial/industrial; community services; cropland; farmstead or headquarters; hayland; native pasture; natural areas; pastureland; rangeland; recreation land; residential land; mined land; transportation services land; wildlife land; forest land; and other. Technical assistance, provided through local SWCDs, includes helping landowners develop conservation plans for implementation by the land owner/operator that include protection and enhancement of water quality through NPS control. The focus of NRCS activities is on voluntary action by landowners and managers to affect wise

land use. Cost-share funds are often available for implementation of conservation practices through both NRCS and FSA.

#### **USDI Bureau of Land Management**

#### **NPS categories to be addressed: Rangeland and Grazing/Wildlife Management, Resource Extraction, Recreation, Construction**

The BLM is a designated management agency for NPS control in New Mexico. Their responsibility includes control, abatement, and prevention of NPS pollution resulting from activities conducted on over 13 million acres of lands managed by BLM in New Mexico. Of particular State concern, regarding NPS control on BLM lands, are development and implementation of BMPs for rangelands and riparian areas. Development of grazing BMPs on BLM land is accomplished through activity plans and site-specific NEPA analysis documents, such as EAs, on proposed actions that establish site-specific objectives and mitigation within the general objectives of a particular RMP. The riparian area management program is being developed and stresses improvement of water quality as a prime objective of the program. BLM is cooperating with other federal and State agencies and private groups to identify, restore, and manage important riparian areas on BLM lands in New Mexico.

#### **U.S. Geological Survey Water Resources Division**

SWQB has a contract with USGS, Water Resources Division, to collect data at numerous selected sites throughout the State. These data have been collected at the same sites, in some cases for decades, providing valuable baseline information on water quality and quantity. The data are uploaded into the STORET database, and also published regularly by USGS. SWQB uses these data in conjunction with its TMDL development program, as well as for NPS pollution management. USGS also acquires baseline data and conducts research on various water quality-related topics. USGS is involved in the National Water Quality Assessment (NAWQA) Program, which became fully implemented in 1991. The NAWQA Program builds upon an existing base of water quality studies of the USGS, and other federal, State and local agencies.

#### **New Mexico Forestry Division**

#### **NPS categories to be addressed: Silviculture, Rangeland and Grazing/Wildlife Management, Road Construction**

The New Mexico Forestry Division's forest resource management programs involve the application of both regulatory and voluntary silvicultural BMPs on State and private forest lands in New Mexico.

**Voluntary Programs and Activities:** Through the federally supported Cooperative Forestry Assistance Program, the New Mexico Forestry Division provides technical forest resource management assistance to landowners and recommends application of NPS pollution BMPs in all silvicultural activities. Types of technical assistance range from reforestation to harvesting of mature timber. This assistance is designed to meet a wide range of landowner management objectives. In conjunction with these programs, the New Mexico Forestry Division has technical responsibility for application of forestry practices in federally funded landowner cost share programs that include FIP and SIP. SIP provides for the widest range of practices, such as wetlands protection, disturbed site rehabilitation, and protection or re-establishment of riparian vegetation. Distribution of information and education to private forest landowners and other cooperators is a major effort of the New Mexico Forestry Division. Information is provided in the following manner:

Through three publications that prescribe, define, and illustrate BMPs for treatment of roads, skid trails, landings, etc., related to silviculture and other resource management operations. These publications are titled *Water Quality Protection Guidelines for Forestry Operations in New Mexico* (Forestry Division, 1994), *Reducing Erosion from Unpaved Rural Roads in New Mexico*

(Soil and Water Conservation Division, 1983), and New Mexico Forest Practices Guidelines (Forestry and Resources Conservation Division, 1990).

Training is provided to landowners and other interested individuals, individually or in group presentations. The New Mexico Forestry Division is the lead agency for the national Project Learning Tree Program, which is designed for educators of students from kindergarten through grade 12. It is a source of interdisciplinary instructional activities and provides workshops and in-service programs for teachers, foresters, park and nature center staff, and youth group leaders.

The New Mexico Forestry Division co-sponsors a Forestry Camp for interested youth. The camp's programs educate campers on complexity of forest ecosystems and importance of a healthy system for providing quality water and other benefits. Under the auspices of the Conservation Planting Revolving Fund, the New Mexico Forestry Division provides, at cost, seedling trees to landowners for conservation plantings that provide soil stabilization, reforestation, and afforestation. Seedlings planted for the above purposes help control erosion and improve water quality.

### **New Mexico Department of Transportation**

#### **NPS categories to be addressed: Road Construction**

NMDOT is responsible for the planning, designing, construction and maintenance of New Mexico's federal and State roads and highways. Use of BMPs to control erosion from disturbed areas and road embankments, for chemical de-icers, for herbicides used for weed control, and for other sources of NPS pollution are required for all road construction and maintenance work performed or contracted by NMDOT. BMPs are routinely included in operational plans for construction and maintenance projects. Design and implementation of BMPs is overseen by the NMDOT's Engineering/Design Division. Additional controls are established under the National Pollutant Discharge Elimination System Stormwater Pollution Prevention Program (§402(p) of the CWA) for pollution prevention plans on all projects that incorporate a disturbance of five acres or more.

### **New Mexico State Land Office**

#### **NPS categories to be addressed: Agriculture, Rangeland and Wildlife/Grazing Management, Road Construction, Resource Extraction, Silviculture**

The SLO administers approximately nine million surface acres and 13 million acres of mineral estate that are held in trust for the common schools, State universities, and other beneficiary institutions. The SLO is required to manage the trust's assets in a manner that maximizes income to beneficiaries. At the same time, assets (renewable and non-renewable) must be protected from waste and dissipation to ensure sustainability. The SLO is not legally authorized to expend trust funds for improvement of trust land. However, FSA funds may be expended on trust lands. The SLO uses a cooperative approach in dealing with conservation of natural resources in relation to grazing and agricultural practices on trust land. Lessees are encouraged to enter into EQIP contracts or develop ranch and farm plans with SWCDs, and NRCS. Communications frequently occur with the approximately 4,000 grazing lessees regarding evolving range conservation practices. The SLO has promulgated rules that stipulate BMPs designed to control sediment and other pollutants originating from construction and operation of roads. Similarly, the agency has rules establishing reclamation standards for oil and gas development on trust lands. Lessees of State lands are required to develop and implement management plans and reclamation plans as a condition of the lease. The SLO has the authority to cancel any lease that does not meet these conditions. SLO staff conducts on-site inspections to ensure that lease conditions are met.

### **New Mexico Water Resources Research Institute (WRRI)**

The New Mexico Water Resources Research Institute (WRRI) administers funds from State, federal, and other sources to support a statewide program that promotes research, training, information dissemination, and other activities to meet the needs of the state and nation. Basic and applied research is conducted by scientists of state academic institutions, with research priorities established by the state Program Development and Review Board. Water quality, including nonpoint source impacts, is one of the key research priorities of the WRRI. State appropriations support a substantial part of the program. Federal appropriations are provided through the Water Resources Research Act (42 USC 109 et seq.), which authorizes a program of water-related research and training through establishment of water research institutes at land grant colleges in each state, and authorizes awarding of grant funds for research projects. The program addresses water resource management problems, such as abundance and quality of our water supplies, sources of water contaminants and methods of remediation, and training of research scientists, engineers, and technicians. Other important topics, such as water conservation, planning, and management, and atmosphere-surface-ground water relationships are represented in the program. WRRI reports annually to SWQB and the NPS Task Force/UWA\* Work Group on research related to NPS activities.

**Office of the State Engineer (OSE); Interstate Stream Commission (ISC)**  
**NPS categories to be addressed: Agriculture, Hydromodification, Silviculture, and Land Disposal**

The OSE and ISC are responsible for the administration, investigation, planning, development, conservation, and protection of New Mexico's water resources. Office of the State Engineer (OSE) In addition to water-rights and water adjudication responsibilities, the OSE maintains a Water Conservation Program that provides information on water conservation to the general public, technical assistance to water users on water conservation, and develops the water conservation policies implemented in the administration of water rights.

**Soil and Water Conservation Districts**

**NPS categories to be addressed: Agriculture.** SWCDs in New Mexico are political subdivision of the State and are responsible under State law for directing soil and water conservation programs. Each of the 47 SWCDs in New Mexico are operated by a board of five locally-elected District Supervisors who are familiar with local soil and water conservation problems. SWCDs can provide assistance at the local level to establish watershed management associations, develop watershed action plans, provide technical expertise on water quality and NPS pollution issues, promote the use of the CW-SRF, assist local governments with NPS pollution management and prevention, and provide water stewardship education to private landowners.

**FUNDING RESOURCES**

A spreadsheet of funding resources will be added to the *WIPS* (as Appendix B), and posted at its website sometime in the future. The spreadsheet will include contact and descriptive information along with each source's typical funding cycle.