



References

- Aller, L., T. Bennett, J. Lehr, and G. Hackett. 1987. *DRASTIC: a standardized system for evaluating groundwater pollution potential using hydrogeologic settings*. EPA/600/2-87/035, U.S. Environmental Protection Agency.
- Allison, G.B., G.W. Gee, and S.W. Tyler. 1994. Vadose-zone techniques for estimating groundwater recharge in arid and semiarid regions. *Soil Sci. Society of Am. J.* 58:6-14.
- Alter, G. 2003. Personal communication between George Alter, Santa Fe National Forest Supervisors Office, and John Kay, Daniel B. Stephens & Associates, Inc. January 2003.
- Anderholm, S.K. 1983. Hydrogeology of the Socorro and La Jencia Basins, Socorro County, New Mexico. *In Socorro Region II*, New Mexico Geological Society 34th Annual Field Conference, October 13-15, 1983.
- Anderholm, S.K. 1987. *Hydrogeology of the Socorro and La Jencia Basins, Socorro County, New Mexico*. Water Resource Investigations Report 84-4342, U.S. Geological Survey, Albuquerque, New Mexico.
- Archuleta, P. 2003. Personal Communication with Phil Archuleta of P&M Plastics, Mountainair, New Mexico. May 2003.
- Austin, S.A. 1999. *Streamflow response to forest management: A meta-analysis using published data and flow duration curves*. M.S. thesis, Department of Earth Resources, Colorado State University, Fort Collins, Colorado. 121p. plus app.
- Avon, L., and T.J. Durbin. 1994. Evaluation of the Maxey-Eakin method for estimating recharge to ground-water basins of Nevada. *Water Resources Bulletin* 30(1):99-111.
- Bachman, G.O. 1968. *Geology of the Mockingbird Gap quadrangle, Lincoln and Socorro Counties, New Mexico*. Professional Paper 594-J, U.S. Geological Survey.



- Bachman, G.O., and R.L. Harbour. 1970. *Geologic map of the northern part of the San Andres Mountains, central New Mexico*. Scale 1:62,500, U.S. Geological Survey.
- Barroll, M.W. 1989. *Analysis of the Socorro hydro-geothermal system, central New Mexico*. Ph.D. dissertation, New Mexico Institute of Mining and Technology, Socorro, New Mexico.
- Bedinger, M.S., K.A. Sargent, and B.T. Brady. 1985 *Geologic and hydrologic characterization and evaluation of the Basin and Range Province relative to the disposal of high-level radioactive waste: Part III. Geologic and hydrologic evaluation*. Circular 904-C. U.S. Geological Survey.
- Bedinger, M.S., K.A. Sargent, W.H. Langer, F.B. Sherman, J.E. Reed, and B.T. Brady. 1989a. *Studies of geology and hydrology in the Basin and Range Province, southwestern United States, for isolation of high-level radioactive waste—Basis of characterization and evaluation*. Professional Paper 1370-A, U.S. Geological Survey.
- Bedinger, M.S., K.A. Sargent, and W.H. Langer. 1989b. *Studies of geology and hydrology in the Basin and Range Province, southwestern United States, for isolation of high-level radioactive waste—Characterization of the Rio Grande region, New Mexico and Texas*. Professional Paper 1370-C. U.S. Geological Survey.
- Belsky, A.J., A. Matzke, and S. Uselman. 1999. Survey of livestock influences on stream and riparian ecosystems in the western United States. *Journal of Soil and Water Conservation* 54(1):419-431.
- Benavides-Solorio, J., and L.H. MacDonald. 2001. Post-fire runoff and erosion from simulated rainfall on small plots, Colorado Front Range. *Hydrological Processes* 15:2931-2952.
- Bernalillo County Municipal Code. 2001. Codified through Ord. No. 01-4, enacted Nov. 11, 2002 (Supplement No. 12). Chapter 42. Health and Sanitation, Article IV. Environmental Health Code, Division 10. Wastewater Systems.



- Blackburn, W.H., R.W. Knight, and M.K. Wood. 1982. *Impacts of grazing on watersheds: A state of knowledge*. Texas Agricultural Experiment Station, Texas A&M University, College Station, Texas. 30p.
- Blaney, H.F. and E.G. Hanson. 1965. *Consumptive use and water requirements in New Mexico*. New Mexico Office of the State Engineer Technical Report 32. 85p.
- Blodgett, D.D., and F.B. Titus. 1973. *Hydrogeology of the San Augustin Plains, New Mexico*. Independent study submitted for M.S. degree to NMIMT, Open File Report 51, New Mexico Bureau of Mines and Mineral Resources, Socorro, New Mexico.
- Bosch, J.M., and J.D. Hewlett. 1982. A review of catchment experiments to determine the effect of vegetation changes on water yield and evapotranspiration. *Journal of Hydrology* 55:3-23.
- Bowers, R.L. 1990. *Geology, hydrology, and associated potential environmental impacts of the Aerial Cable Test Capability (ACTC) Project, White Sands Missile Range, New Mexico*. Physical Science Laboratory, New Mexico State University.
- Brady, B.T., D.A. Mulvihill, D.L. Hart, and W.H. Langer. 1984. *Maps showing ground-water levels, springs, and depth to ground water, Basin and Range Province, New Mexico*. Water-Resources Investigations Report 83-4118-B, U.S. Geological Survey.
- Brown, H.E., M.B. Baker, Jr., J.J. Rogers, W.P. Clary, J.L. Kovner, F.R. Larsen, C.C. Avery, and R.E. Campbell. 1974. *Opportunities for increasing water yields and other multiple use values on ponderosa pine forest lands*. USDA Forest Service Research Paper RM-256, Fort Collins, Colorado. 36p.
- Bureau of Business and Economic Research (BBER). 2001. *Total population for New Mexico incorporated places: 1990 and 2000*. <<http://www.unm.edu/~bber/census/plcities.htm>>. Last revised March 23, 2001.



- Burson, J.M. 2000. Middle Rio Grande water resource planning: The pitfalls and the promises. *Nat. Res. J.* 40:533.
- Burt, C.M., A.J. Clemmens, R. Bliesner, J.L. Merriam, and L. Hardy. 2000. *Selection of irrigation methods for agriculture*. American Society of Civil Engineers On-Farm Irrigation Committee of the Environmental and Water Resources Institute, New York, New York. 144p.
- CH2M Hill. 1990. *Vulnerability of Bernalillo County ground-water resources*. Hazardous Materials and Waste Storage Component of the *Ground-Water Protection Policy and Action Plan*. Prepared for the Policy Coordinating Committee. May 1990.
- Chapin, C.E. 1971. The Rio Grande Rift, Part 1: Modifications and additions. In James, H.L. (ed.), *Guidebook of the San Luis Basin*, Twenty-Second Field Conference, September 30-October 1-2, 1971, New Mexico Geological Survey.
- Chapin, C.E. and S.M. Cather. 1994. Tectonic setting of the axial basins of the northern and central Rio Grande Rift. In Keller, G.R. and S.M. Cather (eds.), *Basins of the Rio Grande Rift: Structure, stratigraphy, and tectonic setting*. Geological Society of America Special Paper 291.
- City of Albuquerque (COA). 1997. *City of Albuquerque water resources management strategy: Evaluation of alternatives and strategy formulation*. Public Works Department, Water Resources. Available at <<http://www.cabq.gov/waterresources/docs/Awrmsf.pdf>>. February 1997.
- Clark, J.W., W. Viessman, and M.J. Hammer. 1977. *Water supply and pollution control*, Third edition. IEP, New York. 857p.
- Cleverly, J. 2003. Technical and physical feasibility fact sheet, Alternative 1: Bosque management. In *Evaluation of alternative actions for technical, physical, hydrological, environmental, economic, social, cultural, and legal feasibility and water quality issues and*



legal overview. Prepared for the Mid Region Council of Governments and the Middle Rio Grande Water Assembly. February 2003.

Conover, C.S., E.H. Herrick, J.W. Wood, and J.E. Weir, Jr. 1955. The occurrence of groundwater in south-central New Mexico. In *Guidebook of south-central New Mexico*, Sixth Field Conference, November 11-12 & 13, 1955, New Mexico Geological Society.

Dane, C.H. and G.O. Bachman. 1965. *Geologic map of New Mexico*. U.S. Geological Survey, 2 sheets, scale 1:500,000.

Daniel B. Stephens & Associates, Inc. (DBS&A). 1996. *Estimation of infiltration and recharge for environmental site assessment*. American Petroleum Institute, Health and Environmental Sciences Department Publication Number 4643. July 1996.

Darilek, A. 2001. Personal communication with Alice Darilek, New Mexico Office of the State Engineer, Water Use and Conservation Bureau. June 2001.

Darling, W.G., W.M. Edmunds, D.G. Kinniburgh, and S. Kotoub. 1992. Sources of recharge to the basal Nubian Sandstone aquifer, Sudan. *Journal of Hydrology* 131:1-24.

Davie, W. Jr. and Z. Spiegel. 1967. *Las Animas Creek hydrographic survey report, geology and water resources of Las Animas Creek and vicinity, Sierra County, New Mexico*. New Mexico State Engineer Office.

Dello Russo, G. 2002. Conceptual restoration plan, Active floodplain of the Rio Grande San Acacia to San Marcial, NM. In Friends of the Bosque newsletter. <<http://www.friendsofthebosque.org/Newsletter111202.pdf>>. Volume 9, issue 6. November-December 2002.

Doty, G.C. 1968. *Test wells drilled at Mockingbird Gap, Socorro County, N. Mex., June to October 1965*. Open-File Report. U.S. Geological Survey, Albuquerque, New Mexico. February 1968. 23 p.



- Drennan, J. 1997. Lassoing the loophole: The need to rope in the use of the domestic well loophole by subdividers in New Mexico. *Nat. Res. J* 37:923.
- Dunne, T. and L. Leopold. 1978. *Water in Environmental Planning*. W.H. Freeman Publishers, New York. 818p.
- Ffolliott, P.F. and D.B. Thorud. 1975. *Vegetation management for increased water yield in Arizona*. Technical Bulletin 215, Agricultural Experiment Station, University of Arizona, Tucson, Arizona. 38p.
- Fipps. 2000. *Potential water savings in irrigated agriculture for the Rio Grande planning region, Final report*. Texas A&M University System.
- Fort, D.D. 1998. Restoring the Rio Grande: A case study in environmental federalism. *Environmental Law* 28(15).
- Four Corners Sustainable Forests Partnership. *Four Corners Forests Sustainable Partnership*. <<http://www.fourcornersforests.org>>. Accessed May 8, 2003.
- Freeze, A. and J. Cherry. 1979. *Groundwater*. Prentice Hall, Englewood Cliffs, New Jersey. 604p.
- Gary, H.L. 1975. *Watershed management problems and opportunities for the Colorado Front Range ponderosa pine zone: The status of our knowledge*. USDA Forest Service Research Paper RM-139, Fort Collins, Colorado. 32p.
- Gee, G.W. and D. Hillel. 1988. Groundwater recharge in arid regions: Review and critique of estimation methods. *Hydrological Processes* 2:255-266.
- Gottfried, G.J. and K.E. Severson. 1994. Managing pinyon-juniper woodlands. *Rangelands* 16(6):234-236. December 1994.



- Grissino-Mayer, H., C.H. Baisan, K.A. Morino, and T.W. Swetnam. 2002. *Multi-century trends in past climate for the Middle Rio Grande Basin, AD 622-1992*. Prepared for the U.S. Forest Service, Albuquerque, New Mexico. Laboratory of Tree-Ring Science, Report 2002/6.
- Hanly-Forde, J., G. Homsy, K. Lieberknecht, and R. Stone. Undated. *Transfer of development rights programs: Using the market for compensation and preservation*. Cornell University, Department of City and Regional Planning. <<http://government.cce.cornell.edu/doc/html/Transfer%20of%20Development%20Rights%20Programs.htm>>. Accessed September 2003.
- Hansen, S. 1997. *Middle Rio Grande water assessment: Final report*. U.S. Bureau of Reclamation, Albuquerque Area Office, Albuquerque, New Mexico.
- Hantush, M.S. 1961. American Society of Civil Engineers *Journal of Hydraulics* 87(5).
- Harley, G.T. 1934. *The geology and ore deposits of Sierra County, New Mexico*. New Mexico Bureau of Mines and Mineral Resources Bulletin 10.
- Harman, G. 1936. *Nevada precipitation and acreages of land by rainfall zones*. University of Nevada Experimental Station, Reno, Nevada. 10p.
- Hatton, K.S. et al. 1998. *Mines, Mills and Quarries in New Mexico*. New Mexico Bureau of Mines and Mineral Resources. 54p.
- Hawley, J.W. 1975. Quaternary history of Dona Ana County region, south-central New Mexico. pp. 139-150 In *New Mexico Geological Society Guidebook*, 26th Field Conference, Las Cruces County, New Mexico.
- Hawley, J.W. (comp.). 1978. *Guidebook to Rio Grande rift in New Mexico and Colorado*. Circular 163, New Mexico Bureau of Mines & Mineral Resources, Socorro, New Mexico.



- Hawley, J.W. 1983. Quaternary geology of the Rhodes Canyon (RATSCAT) site. pp. 17-32 *In* Eidenback, P.L. (ed.) *The prehistory of Rhodes Canyon, N.M.* Prepared for Dynalectron Corporation. Human Systems Research, Inc., Tularosa, New Mexico.
- Hawley, J.W. 1993. *Geomorphic setting and late Quaternary history of pluvial-lake basins in the southern New Mexico region.* Open-File Report 391, New Mexico Bureau of Mines and Mineral Resources, Socorro, New Mexico.
- Hawley, J.W. 2000. Personal communication between John Hawley (Hawley Geomatters) and Anne Stewart (DBS&A). August 23, 2000.
- Hawley, J.W., G.O. Bachman, and K. Manley. 1976. Quaternary stratigraphy of Basin and Range and Great Plains provinces, New Mexico and western Texas. pp. 235-274 *In* Mahaney, W.C. (ed.), *Quaternary stratigraphy of North America.* Dowden, Hutchinson and Ross, Stroudsburg, Pennsylvania.
- Hays, B. 1998. Questions remain as to efficacy of brush management for water yield. *Texas Water Savers* 4(2), Spring 1998. Available online at <<http://twri.tamu.edu/twripubs/WtrSavrs/v4n2/article-9.html>>. (Accessed January 2003).
- Hearne, G.A. and J.D. Dewey. 1988. *Hydrologic analysis of the Rio Grande Basin north of Embudo, New Mexico, Colorado and New Mexico.* Water-Resources Investigations Report 86-4113, U.S. Geological Survey. 244p.
- Herrick, E.H. and L.V. Davis. 1965. *Availability of ground water in Tularosa Basin and adjoining areas, New Mexico and Texas.* Hydrologic Investigations Atlas HA-191, U.S. Geological Survey, Washington, D.C. 2p.
- Hornsby, B. 2002. Forest management on the Mescalero Apache Reservation: A Powerpoint presentation. pp. 83-89 *In* Klett, C.T.O. (ed.), *New Mexico watershed management: Restoration, utilization, and protection.* Proceedings, 46th Annual New Mexico Water



Conference, November 5-7, 2001, Santa Fe, New Mexico. WRRRI Report No. 323, New Mexico Water Resources Research Institute, Las Cruces, New Mexico. June 2002.

Howe, C.W. 2000. Protecting public values in a water market setting: Improving water markets to increase economic efficiency and equity. University of Denver *Water Law Review*. Spring 2000.

Hydrosphere Resource Consultants (HRC). 2000. *Historic and current water demand in the Socorro-Sierra water planning region*.

HRC. 2001. *Water budget for the Socorro-Sierra water planning region*.

Interbasin Transfer Working Group. *Final report of the Interbasin Transfer Working Group to the Georgia Joint Comprehensive State Water Plan Study Committee*. July 2002. Available at <<http://www.cviog.uga.edu/water/workinggroups/interbasin/interbasin.pdf>>.

International Arid Lands Consortium (IALC). 2000. *International Arid Lands Consortium promotes long term water savings for U.S. farmers*. September 7, 2000. <<http://ag.arizona.edu/OALS/IALC/news-releases/pr10.html>>. Last updated November 20, 2000. Accessed September 22, 2003.

Jeffrie, L. 2000. Personal communication between Larry Jeffrie (Monticello Community Ditch Association) and Jim McCord (Hydrosphere). July 25, 2000.

John Shomaker & Associates. 1996. *Regional water plan, Estancia underground water basin, New Mexico*.

Johnson, W.D. Jr., J.W. Hawley, W.J. Stone, F.E. Kottlowski, C.D. Henry, and J.G. Price. 1989. Geology. pp. C7-C19. In Bedinger et al. (eds.), *Studies of geology and hydrology in the Basin and Range Province, southwestern United States, for isolation of high-level radioactive waste—Characterization of the Rio Grande region, New Mexico and Texas*. U.S. Geological Survey Professional Paper 1370-C.



- Kay, M. 1986. *Surface irrigation, system and practice*. Cranfield Information Technology, United Kingdom, Ltd.
- Keller, G.R. and Cather, S.M. 1994. *Basins of the Rio Grande rift: Structure, stratigraphy, and tectonic setting*. Geological Society of America, Special Paper 291. Boulder, Colorado.
- Kelley, V.C. and C. Silver. 1952. *Geology of the Caballo Mountains*. UNM Publications in Geology No. 4, University of New Mexico Press, Albuquerque, New Mexico.
- Kelly, V.C. 1952. Tectonics of the Rio Grande depression of central New Mexico. In *New Mexico Geological Society Guidebook*, Third Annual Field Conference, Rio Grande County, New Mexico.
- King, J.P. and A.S. Bawazir. 2000. *Riparian evapotranspiration studies of the Middle Rio Grande*. Technical Completion Report, Project No. 1-4-23955, U.S. Bureau of Reclamation and New Mexico Water Resources Research Institute.
- Kunkel, K.E. 1984. *Temperature and precipitation summaries for selected New Mexico locations*. New Mexico Department of Agriculture, Office of State Climatologist, 190p.
- Lantagne, D.O. 2001. *Some fundamentals for successful weed control in forest crops*. Michigan State University Extension Forestry Bulletin FTE22180. <<http://www.msue.msu.edu/msue/imp/modft/fte22180.html>>. Michigan State University Extension. January 3, 2001.
- Latif, M. and T.P. Barnett. 1994. Causes of decadal climate variability over the North Pacific and North America. *Science* 266:634-637.
- Lee Wilson and Associates, Inc. 1979. *Program for the statewide monitoring of ground-water quality in New Mexico*. Final Report. April 30, 1979.
- Lerner, D.N., A.S. Issar, and I. Simmers. 1990. *Groundwater recharge: A guide to understanding and estimating natural recharge*. IAHS, Hannover: Heise, 345p.



- Lewis, R. 2000. Botany. In *Manter Fire, BAER plan/implementation: Burned area emergency rehabilitation report*. Bureau of Land Management, Bakersfield Field Office. August 2000. Available online at <<http://www.ca.blm.gov/baer/botany.html>>. (Accessed February 2003).
- Livingston, E.C. 2003. *Desalination implementation by the City of Alamogordo*. Presented at the New Mexico Forum for Reclaiming Produced/Brackish Water for Beneficial Use, Hobbs, New Mexico, July 22, 2003.
- Lozinsky, R.P. 1987. Cross section across the Jornada del Muerto, Engle, and northern Palomas Basins, south-central New Mexico. *New Mexico Geology* 9(3):55-57.
- MacDonald, L., M. Wirtz, A. Belin, and E. Atencio 2002. *Alternative: Restore and manage forests, piñon-juniper woodlands, and riparian systems*. White paper prepared for the Jemez y Sangre Regional Water Planning Council, Santa Fe, New Mexico. Daniel B. Stephens & Associates, Inc. July 2002.
- Mantua, N. 2000. *The Pacific decadal oscillation (PDO)*. <<http://tao.atmos.washington.edu/pdo/>>. Joint Institute for the Study of the Atmosphere and Ocean. Accessed August 12, 2003.
- Mantua, N.J. 2002. Pacific-decadal oscillation (PDO). pp. 592-594 In Munn, T., M.C. McCracken, and J.S. Perry (eds.) *Encyclopedia of global environmental change, Volume 1, The Earth system: Physical and chemical dimensions of global environmental change*. John Wiley & Sons, Chichester. Available at <http://www.atmos.washington.edu/~mantua/REPORTS/egec_pdo.pdf>.
- Maxey, G.B. and T.E. Eakin. 1949. *Ground water in White River Valley, White Pine, Nye, and Lincoln Counties, Nevada*. Nevada State Engineer, Water Resources Bulletin No. 6. 23p.
- McCord, J.T. and D.B. Stephens, 1987. Lateral moisture flow beneath a sandy hillslope without an apparent impeding layer. *Hydrological Processes* 1:225-238.



- McCord, J.T., and J.N. Winchester. 2001. *Analysis of management alternatives for the Santa Fe municipal watershed*. New Mexico Decision Makers Field Guide No. 1, Water, Watersheds, and Land Use in New Mexico, New Mexico Bureau of Geology, Socorro, New Mexico.
- McLean, J.S. 1970. *Saline ground-water resources of the Tularosa Basin, New Mexico*. Prepared in cooperation with the New Mexico State Engineer and the Office of Saline Water. Department of the Interior, U.S. Geological Survey, OSW Agreement No. 14-01-0001-2091. June 1970.
- Meinzer, O.E. and R.F. Hare. 1915. *Geology and water resources of Tularosa Basin, New Mexico*. Water-Supply Paper 343, U.S. Geological Survey.
- Moody, J.A. and D.A. Martin. 2001. Initial hydrologic and geomorphic response following a wildfire in the Colorado Front Range. *Earth Surface Processes and Landforms* 26:1049-1070.
- Mounyo, J. 2003. Personal conversation with Johnny Mounyo, Socorro Division of the Middle Rio Grande Conservancy District, and Beth Salvas, Daniel B. Stephens & Associates, Inc. September 2003.
- Murray, C.R. and C.V. Theis. 1946. Preliminary memorandum on the safe yield of ground-water in the Hot Springs ground-water district, Sierra County, New Mexico. Department of the Interior, U.S. Geological Survey. March 1946.
- Murray, C.R. 1959. *Ground-water conditions in the nonthermal artesian-water basin south of Hot Springs, Sierra County, New Mexico*. Technical Report 10, New Mexico State Engineer Office, Santa Fe, New Mexico.
- Myers, R.G. 1988. Hydrogeology of the San Agustin Basin, the Alamosa Creek basin upstream from Monticello Box, and the upper Gila Basin, west-central New Mexico (abs.). *New Mexico Geology* 10(3):67.



Myers, R.G., J.T. Everheart, and C.A. Wilson. 1994. *Geohydrology of the San Agustin Basin, Alamosa Creek Basin upstream from Monticello Box, and upper Gila Basin in parts of Catron, Socorro, and Sierra Counties, New Mexico*. Water-Resources Investigations Report 94-4125, U.S. Geological Survey, Albuquerque, New Mexico.

Nabhan, G., L. Classen, and J. Dlott. 2002. *Promoting sustainably harvested native products in the Grand Canyon country of the Four Corners states, Action plan*. July 2002.

National Fire Plan. <<http://www.fireplan.gov>>. Accessed May 8, 2003.

Neal, J.T., R.E. Smith, and B.F. Jones. 1983. Pleistocene Lake Trinity, an evaporite basin in the northern Jornada del Muerto, New Mexico. pp. 285-290 *In* Chapin, C.E. (ed.) *Socorro Region II*. New Mexico Geological Society Thirty-Fourth Annual Field Conference, October 13-15, 1983.

New Mexico Agricultural Statistics Service (NMASS). 1995. *1995 New Mexico agricultural statistics*. Prepared in cooperation with New Mexico Department of Agriculture. New Mexico Agricultural Statistics Service, USDA.

NMASS. 1996. *1996 New Mexico agricultural statistics*. Prepared in cooperation with New Mexico Department of Agriculture. New Mexico Agricultural Statistics Service, USDA.

NMASS. 1997. *1997 New Mexico agricultural statistics*. Prepared in cooperation with New Mexico Department of Agriculture. New Mexico Agricultural Statistics Service, USDA.

NMASS. 1998. *1998 New Mexico agricultural statistics*. Prepared in cooperation with New Mexico Department of Agriculture. New Mexico Agricultural Statistics Service, USDA.

New Mexico Economic Development Department (NMEDD). 2003. *New Mexico County Statistics – Socorro and Sierra*. <<http://www.edd.state.nm.us/COMMUNITIES/ShowCounty.php>> Accessed February 26, 2003.



New Mexico Energy, Minerals and Natural Resources Department, Mining and Mineral Division and New Mexico Bureau of Geology and Mineral Resources. 2001. *Mines, Mills and Quarries in New Mexico 2001*.

New Mexico Environment Department (NMED). 1990. *Database of operating and closed solid waste facilities in New Mexico*. August 14, 1990.

NMED. 1996. *Solid waste in New Mexico, 1996 annual report*. July 1, 1996.

NMED. 2000. *Solid waste in New Mexico, 2000 annual report*. December 1, 2000.

NMED. 2002a. *Middle Rio Grande total daily maximum load for fecal coliform*. Surface Water Quality Bureau. May 2002.

NMED. 2002b. *NPDES permittees in New Mexico - 2002*. <<http://www.nmenv.state.nm.us/swqb/psrlist.html>> Surface Water Quality Bureau, Point Source Regulation Section. September 13, 2002.

NMED. 2002c. *Prioritization of TMDLs*. <<http://www.nmenv.state.nm.us/>> Surface Water Quality Bureau, June 26, 2002.

NMED. 2003a. *2002-2004 State of New Mexico §303(d) list for assessed river/stream reaches requiring total maximum daily loads (TMDLs)*. Surface Water Quality Bureau, Santa, New Mexico. Available at <[http://www.nmenv.state.nm.us/swqb/303d/2002-2004_State_of_New_Mexico_303\(d\)_List.pdf](http://www.nmenv.state.nm.us/swqb/303d/2002-2004_State_of_New_Mexico_303(d)_List.pdf)>. June 2003.

NMED. 2003b. *List of Discharge Permits*. <<http://www.nmenv.state.nm.us/>> Ground Water Quality Bureau, Pollution Prevention Section. Accessed September 2, 2003.

NMED. 2003c. *NPDES permittees in New Mexico - 2002*. <<http://www.nmenv.state.nm.us/swqb/psrlist.html>> Surface Water Quality Bureau, Point Source Regulation Section. Accessed August 11, 2003.



NMED. 2003d. *Past and current leak sites by GWPA rank and city.* <<http://www.nmenv.state.nm.us/ust/leakcity.html>> Underground Storage Tank Bureau. Accessed August 27, 2003.

New Mexico Institute of Mining and Technology (New Mexico Tech [NMT]). 1999. *New Mexico Tech's 1999 Strategic Plan.* Available at <<http://www.nmt.edu/~pio/strategy/final/>>. Accessed September 2003.

New Mexico Interstate Stream Commission (NM ISC). 1994. *Regional Water Planning Handbook.* December 1994.

NM ISC. 2003. Undated draft of the surface water section of the Lower Rio Grande regional water plan. Provided by Mary Helen Follingstad to Joanne Hilton, DBS&A. July 2003.

New Mexico Office of the Governor. 2003. *Governor Richardson offers state help to Elephant Butte.* Press Release, State of New Mexico Office of the Governor. May 2, 2003. Available at <http://www.governor.state.nm.us/2003/news/may/050203_1.pdf>.

New Mexico Office of the State Engineer (NM OSE). 1974. Internal memorandum from Luis Ortega to Fred Allen regarding irrigated acreage in Socorro and Sierra Counties. October 18, 1974.

NM OSE. 1997. *Tularosa underground water basin, Administrative criteria for the Alamogordo-Tularosa area.* May 1997.

NM OSE. 2000a. *Middle Rio Grande administrative area guidelines for review of water right applications.* Available at <<http://www.ose.state.nm.us/doing-business/mrgbasin/mrgbasin.html>>. September 13, 2000.

NM OSE. 2000b. *State Engineer declares basin, Will require permit to export water out of state.* Press release. Available at <<http://www.seo.state.nm.us/hot-topics/press/saltbasin-09-19-2000.html>>. September 15, 2000.



NM OSE. 2003. *Lower Rio Grande Basin hydrographic surveys*. Available at <http://www.ose.state.nm.us/water-info/legal/hydro-menu.html>.

New Mexico Resource Geographic Information System (RGIS) Program. 1998. Hydrologic unit map hyd0003 in *RGIS Clearinghouse Resource Data, Version 2.0, Volume 1b*. Earth Data Analysis Center, University of New Mexico, Albuquerque, New Mexico.

New Mexico Water Quality Control Commission (NMWQCC). 2002. *Water quality and water pollution control in New Mexico 2002: A report for submission to the Congress of the United States by the State of New Mexico pursuant to Section 305(b) of the Federal Clean Water Act*. NMED/SWQ-02/1.

Oregon State University (OSU). 2000-2002. *PRISM climate mapping service*. <http://www.ocs.orst.edu/prism>. Spatial Climate Analysis Service.

Orr, B.R. and R.G. Myers. 1986. *Water resources in basin-fill deposits in the Tularosa Basin, New Mexico*. Water-Resources Investigations Report 85-4219. U.S. Geological Survey, Albuquerque, New Mexico.

Osburn, G.R. 1984. *Socorro County geologic map*. Open File Report 238, New Mexico Bureau of Mines & Mineral Resources, Socorro, New Mexico.

Osburn, G.R. and C.E. Chapin. 1983. *Nomenclature for Cenozoic rocks of northeast Mogollon-Datil volcanic field, New Mexico*. Stratigraphic Chart 1, New Mexico Bureau of Mines and Mineral Resources.

Partners for Fish and Wildlife. 1998. *Conservation easements, Private rights and public benefits 1998*.

Phillips, F.M. 1994. Environmental tracers for water movement in desert soils of the American Southwest. *Soil Sci. Society of Am. J.* 58:15-24.



- Policy Coordinating Committee. 1995. *Albuquerque/Bernalillo County ground-water protection policy and action plan*. Adopted by the Board of County Commissioners on November 1993 and by the Albuquerque City Council on August 1994.
- Ramsey, R. 1994. *Socorro-Sierra regional water plan*. Prepared for Socorro Soil and Water Conservation District. May 1994.
- Reader, T. 2003. *Four Corners forests: Exploring new uses for small diameter timber*. <<http://www.fourcornersforests.org/ExploringNewUses.pdf>>. Accessed May 8, 2003.
- Reid, K.D., B.P. Wilcox, D.D. Breshears, and L. MacDonald. 1999. Runoff and erosion in a pinon-juniper woodland: Influence of vegetation patches. *Soil Science Society of American Journal* 63(6):1869-1879.
- Rich, L.R. 1972. Managing a ponderosa pine forest to increase water yield. *Water Resources Research* 8:422-428.
- Robichaud, P.R., and T.A. Waldrop. 1994. A comparison of surface runoff and sediment yields from low-and-high severity site preparation burns. *Water Resources Bulletin* 30:27-34.
- Robichaud, P.R., J.L. Beyers, and D.G. Neary. 2000. *Evaluating the effectiveness of postfire rehabilitation treatments*. USDA Forest Service Gen. Tech. Rep. RMRS-GTR-63, Rocky Mountain Research Station, Fort Collins, Colorado. 85p.
- Roundy, B.A., and J.L. Vernon. 1999. Watershed values and conditions associated with pinyon-juniper communities. pp. 172-187 *In* Monsen, S.B. and R. Stevens (comp.), *Proceedings: Ecology and management of pinyon-juniper communities within the interior west*. September 15-18, 1997, Brigham Young University, Provo, Utah. Proceedings RMRS-P-9, U.S. Department of Agriculture Forest Service, Rocky Mountain Research Station, Ogden, Utah. June 1999.



Roybal, F.E. 1991. *Ground-water resources of Socorro County, New Mexico*. Water-Resources Investigations Report 89-4083, U.S. Geological Survey.

S.S. Papadopoulos & Associates, Inc. (SSPA). 2000. *Draft Middle Rio Grande water supply study*. Prepared for U.S. Army Corps of Engineers, Albuquerque District, and New Mexico Interstate Stream Commission. June 16, 2000.

SSPA. 2002a. *Socorro-Sierra planning region water planning study: Groundwater resources in the Rio Grande and La Jencia Basins*. Prepared for the New Mexico Interstate Stream Commission. July 2002.

SSPA. 2002b. MRGCD efficiency and metering program. Prepared for the New Mexico Interstate Stream Commission. December 2002.

SSPA. 2003. Middle Rio Grande water supply study, Phase 3, Interim partial draft. Prepared for U.S. Army Corps of Engineers and New Mexico Interstate Stream Commission. August 6, 2003.

Sandeen, W.M. 1954. Geology of the Tularosa Basin, New Mexico. In *Guidebook of Southeastern New Mexico*, Fifth Field Conference, October 21-22-23 & 24, 1954, New Mexico Geological Society.

Seager, W.R., R.E. Clemons, J.W. Hawley, and R.E. Kelley. 1982. *Geology of northwest part of Las Cruces 1° x 2° sheet, New Mexico*. Geologic Map 53, New Mexico Bureau of Mines & Mineral Resources, Socorro, New Mexico.

Seager, W.R., J.W. Hawley, F.E. Kottlowski, and S.A. Kelley. 1987. *Geology of east half of Las Cruces and northeast El Paso 1° x 2° sheets, New Mexico*. Geologic Map 57, New Mexico Bureau of Mines & Mineral Resources, Socorro, New Mexico.



- Shafike, N., L. Wilcox, and R.S. Bowman. 2002. *Hydrologic modeling of the Rio Grande surface water / groundwater system from San Acacia to Elephant Butte Reservoir*. Presentation abstract for New Mexico Water Research Symposium. August 13, 2002.
- Sheldon, K.P. 1999. Symposium Wilderness Act of 1964: Reflections, applications and prediction: Content: III. Specific application: Water for wilderness. *Denver University Law Review* 76:555.
- Sites-Southwest (SSW). 2000. *Population projections for Sierra and Socorro Counties, 1990 to 2040*.
- Smith, S. 2000. *San Antonio Mutual Domestic Water Consumers Association 40-year water supply plan*. 15p.
- Socorro Soil and Water Conservation District (Socorro SWCD). 1999. *Socorro-Sierra regional water plan 1994 revision*.
- Soil and Water Conservation Society (SWCS). 2003. *Seeking common ground for conservation, an agricultural conservation policy project*. <http://www.swcs.org/t_seeking_sectionsummaryfarmbill.htm>. Accessed September 22, 2003.
- Sorensen, E.F. 1977. *Water use by categories in New Mexico counties and river basins, and irrigated and dry cropland acreage in 1975*. Technical Report 41, New Mexico State Engineer Office.
- Sorenson, E. F., 1982, *Water use by categories in New Mexico counties and river basins, and irrigated acreage in 1980*. Technical Report 44, New Mexico State Engineer Office.
- Spiegel, Z. 1955. *Geology and groundwater resources of northeastern Socorro County, New Mexico*. Groundwater Report 4, New Mexico Bureau of Mines and Mineral Resources, Socorro, New Mexico.



- Spurlock, M. 2000. *Overview of water strategies, El Paso water utilities*. New Mexico Water Law Conference, August 24-25.
- Stageman, C. 2003. Personal communication between Chris Stageman, Interstate Stream Commission, and Beth Salvas, Daniel B. Stephens & Associates, Inc. July 10, 2003.
- Stednick, J.D. 1996. Monitoring the effects of timber harvest on annual water yield. *Journal of Hydrology* 176:79-95.
- Stephens, D.B. 1994. A perspective on diffuse natural recharge mechanisms in areas of low precipitation. *Soil Sci. Society of Am. J.* 58:40-48.
- Stowe, N. 2003. Personal communication between Nyleen Stowe, Socorro Soil and Water Conservation District and Joanne Hilton and Beth Salvas, Daniel B. Stephens & Associates. September 16, 2003.
- Summers, W.K. 1976. *Catalog of thermal waters in New Mexico*. New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report No. 4, Socorro, New Mexico.
- Tarlock, D. 1999. Growth management and western water law from urban oases to archipelagos. *Journal of Environmental Law and Policy* 163, Winter 1999.
- Theis, C.V. 1938. Groundwater in the Middle Rio Grande Valley, New Mexico. *In* Natural Resources Planning Board, Part VI, Volume 1: *The Rio Grande joint investigation in the Upper Rio Grande Basin*. U.S. Government Printing Agency.
- Tiedemann, A.R., C.E. Conrad, J.H. Dieterich, J.W. Hornbeck, and W.F. Megahan. 1979. *Effects of fire on water. A state-of-knowledge review*. USDA Forest Service, General Technical Report WO-10, Washington, DC. 28p.
- Trimble, S.W. and A.C. Mendel. 1995. The cow as a geomorphic agent, a critical review. *Geomorphology* 13:233-253.



- Troendle, C.A. 1983. The potential for water yield augmentation from forest management in the Rocky Mountain region. *Water Resources Bulletin* 19(3):359-373.
- Troendle, C.A., and M.R. Kaufmann. 1987. Influence of forests on the hydrology of sub alpine forests. pp. 68-76. In *Management of subalpine forests: Building on fifty years of research*. USDA Forest Service General Technical Report RM-149, Fort Collins, Colorado.
- Troendle, C.A. and R.M. King. 1985. The effects of timber harvest on the Fool Creek watershed, 30 years later. *Water Resources Research* 21(12):1915-1922.
- Troendle, C.A. and R.M. King. 1987. The effect of partial and clearcutting on streamflow at Deadhorse Creek, Colorado. *Journal of Hydrology* 90:145-157.
- Troendle, C.A., and J.M. Nankervis. 2000. *Estimating additional water yield from changes in management of national forests in the North Platte Basin*. 51p.
- Troendle, C.A., M.S. Wilcox, G.S. Bevenger, and L.S. Porth. 2001. The Coon Creek water yield augmentation project: Implementation of timber harvesting technology to increase streamflow. *Forest Ecology and Management* 143:179-187
- Trueline Engineering. 1998. *Projection of water well production*. Prepared for the New Mexico Institute of Mining and Technology.
- U.S. Bureau of Reclamation (USBR). 1997. *Determination of Soil Conservation Service modified Blaney-Criddle crop coefficients in New Mexico*.
- USBR. 1999. *Canal-lining demonstration project, Year 7 durability report*. R-99-06, Materials Engineering Research Laboratory, Denver, Colorado, and Water Conservation Center, Boise, Idaho. September 1999. <<http://www.pn.usbr.gov/project/wat/publications/canallining.pdf>>.



- USBR. 2003. *Statement of Commissioner John Keys on proposed silvery minnow agreement*. News release dated September 10, 2003. Available at <http://www.usbr.gov/uc/albuq/news/nr/keys_minnow.html>.
- U.S. Bureau of Reclamation and U.S. Army Corps of Engineers (USBR and USACE). 2003. *Programmatic biological assessment of Bureau of Reclamation's water and river maintenance operations, Army Corps of Engineers' flood control operation, and non-federal actions on the Middle Rio Grande, New Mexico, March 1, 2003 - February 28, 2013*. <http://www.usbr.gov/uc/albuq/library/eis/pdfs/ba_mrg_jan_2003.pdf>. February 19, 2003.
- U.S. Census Bureau. 2002. *Census 2000 Data for the State of New Mexico*. <<http://www.census.gov/census2000/states/nm.html>>. Last revised October 31, 2002.
- U.S. Department of Agriculture (USDA). 1999. *1997 Census of Agriculture, New Mexico State and County Data*. Volume 1, Geographic Area Series, Part 31.
- U.S. Environmental Protection Agency (EPA). 1991. *Guidance for water quality-based decisions: The TMDL process*. EPA 440/4-91-001. April 1991.
- U.S. EPA. 2003a. *CERCLIS Hazardous Waste Sites*. Superfund Information Systems. <<http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>>. Last updated August 20, 2003. Accessed September 2, 2003.
- U.S. EPA. 2003b. *Water Discharge Permits (PCS)* <http://www.epa.gov/enviro/html/pcs/pcs_query_java.html>. Extracted August 17, 2003. Accessed September 3 and 10, 2003.
- U.S. Fish and Wildlife Service (USFWS). 2003. Endangered and threatened wildlife and plants; designation of critical habitat for the Rio Grande silvery minnow; final rule. *Federal Register* 50 CFR Part 17, February 19, 2003. Available at <http://ifw2es.fws.gov/Documents/R2ES/FINAL_CH_Designation_Rio_Grande_Silvery_Minnow.pdf>.



- U.S. Forest Service. Forest Products Laboratory. <<http://www.fpl.fs.fed.us/>>. Accessed May 8, 2003.
- U.S. Geological Survey (USGS). 1979. *Geological Survey research 1979* (excerpts regarding NM hydrology, geology or geophysics). Geological Survey Professional Paper 1150, U.S. Geological Survey.
- USGS. 2003. *NWISWeb data for New Mexico*. <<http://waterdata.usgs.gov/nm/nwis/nwis>>. Accessed January 2003.
- University of New Mexico (UNM) Water Resources Program. 2001. The East Mountain area septic system user's guide to the Bernalillo County Wastewater Ordinance: Ensuring groundwater sustainability. Publication No. WRP-3. February 2001. Available online at <<http://www.unm.edu/~wrp/wrp-3.htm>>.
- Utton, J. 2000. *The role of irrigation districts: Operation and authority of the Middle Rio Grande Conservancy District*. Presentation at The Law of the Rio Grande, hosted by the New Mexico Bar Association, Continuing Legal Education, March 16-17, 2000.
- Waldron, J.F. 1956. *Reconnaissance geology and ground-water study of a part of Socorro County, New Mexico*. Stanford University PhD dissertation
- Walsh-Padilla, T. 2003. Personal communication between Thora Walsh-Padilla, Mescalero Apache Tribe, and Joanne Hilton, Daniel B. Stephens & Associates, Inc. January 2003.
- Watson, P., P. Sinclair, and R. Waggoner. 1976. Quantitative evaluation of a method for estimating recharge to the desert basins of Nevada. *Journal of Hydrology* 30:335-357.
- Wilkins, D.W. 1986. *Geohydrology of the southwest alluvial basins regional aquifer-systems analysis, parts of Colorado, New Mexico, and Texas*. Water-Resources Investigations Report 84-4224. U.S. Geological Survey, Albuquerque, New Mexico.



- Wilkins, D.W. and B.M. Garcia. 1995. *Ground-water hydrographs and 5-year ground-water-level changes, 1984-93, for selected areas in and adjacent to New Mexico*. Open-File Report 95-434, U.S. Geological Survey, Albuquerque, New Mexico.
- Wilson, B.C. 1986. *Water use by categories in New Mexico counties and river basins, and irrigated acreage in 1985*. Technical Report 46, New Mexico State Engineer Office. 84p.
- Wilson, B.C. 1992. *Water use by categories in New Mexico counties and river basins, and irrigated acreage in 1990*. Technical Report 47, New Mexico State Engineer Office. 141p.
- Wilson, B.C. and A.A. Lucero. 1997. *Water use by categories in New Mexico counties and river basins, and irrigated acreage in 1995*. Technical Report 49, New Mexico State Engineer Office. 149p.
- Wilson, B.C., A.A. Lucero, J.T. Romero, and P.J. Romero. 2003. *Water use by categories in New Mexico counties and river basins, and irrigated acreage in 2000*. Technical Report 51, New Mexico State Engineer Office.
- Wood, M.K. and N. Javed. 2001. *Hydrologic and vegetal responses to fuelwood harvest and slash disposal in a pinyon pine and juniper dominated grassland*. Miscellaneous Report No. M27, New Mexico Water Resources Research Institute, Las Cruces, New Mexico. October 2001.