



Memorandum

Date: January 20, 2000

From: Deborah Hathaway

To: Gail Stockton, ACOE
Kevin Flanigan, ISC

Subject: Middle Rio Grande Water Supply Study Bibliography

Attached is a listing of our “in-progress” document database of reports with potential relevance to the Middle Rio Grande Water Supply Study. Also attached is an annotated bibliography of selected documents, sorted by topic. Our objective is to include all reports related to surface and groundwater modeling, water budget studies and depletion analyses in the Middle Rio Grande study area; and, key reports related to hydrogeology, geology, water resource planning, management of biological resources, and river operations. We will provide updated versions of this database periodically, as we continue to identify relevant documents.

Middle Rio Grande Water Supply Study
Bibliography (listed by author)

DRAFT
Middle Rio Grande Water Supply Study
Bibliography (listed by author)

- Action Committee of Middle Rio Grande Water Assembly 1999
Middle Rio Grande water budget (where it comes from, & goes, & how much)
Action Committee of Middle Rio Grande Water Assembly
- Albuquerque Special Water Planning Committee 1951
Report of the Special Water Planning Committee
City of Albuquerque
- Albuquerque Water Conservation Board 1954
Interim report on the matter of acquisition of water rights
City of Albuquerque
- American Ground Water Consultants, Inc. 1978
Results of the pumping test on the Stewart well located in section 31, T.1 N., R.6 E., Bernalillo County, New Mexico
Consultant report to Lost Valley Estates, Albuquerque
- American Ground Water Consultants, Inc. 1978
Results of aquifer-performance tests using wells serving the Sohio L-Bar mill, Valencia County, New Mexico
Consultant report to Sohio Natural Resources Co., Albuquerque
- American Groundwater Consultants, Inc. 1982
Browood Development discharge plan (Bernalillo County)
Consultant report to Browood Development Co.
- American Groundwater Consultants, Inc. 1982
Ground-water resources of the Three Springs Subdivision, Bernalillo County, New Mexico
Consultant report to MJB Joint Venture
- Anderholm, S.K. 1984
Hydrology of the Socorro and La Jencia basins, Socorro county, New Mexico
U.S. Geological Survey Water-resources investigations report 84-4342
- Anderholm, S.K. 1987
Reconnaissance of hydrology, land use, ground-water chemistry, and effects of land use on ground-water chemistry in the Albuquerque-Belen Basin, Albuquerque, New Mexico
U.S. Geological Survey Water-Resources Investigation Report 86-4174
- Anderholm, S.K. 1988
Ground-water geochemistry of the Albuquerque-Belen basin, central New Mexico
U.S. Geological Survey Water-Resources Investigation Report 86-4094
- Anderholm, S.K. 1994
Ground-water recharge near Santa Fe, north-central New Mexico
U.S. Geological Survey Water-Resources Investigation Report 94-4078

Anderholm, S.K. and T.F. Bullard 1987
Description of piezometer nests and water levels in the Rio Grande valley near Albuquerque, Bernalillo County, New Mexico
U.S. Geological Survey Water-Resources Investigation Report 87-122

Arroyo Mining Company, Inc. 1980
Ground-water hydrology, in Arroyo No. 1 Mining Plan, Sandoval County, New Mexico
Consultant report, Chapter IX

Baker, A.A., and L.W. Gelhar 1974
Groundwater quality simulation for the Socorro region of the Rio Grande in New Mexico
New Mexico Institute of Mining and Technology, Dept. Geosciences Report

Barroll, P. 1999
Draft documentation of the Administrative Groundwater Model for the Middle Rio Grande Basin
New Mexico Office of the State Engineer

Bartolino, J.R. 1997
U.S. Geological Survey Middle Rio Grande basin study: Proceedings of the first annual workshop, Denver Colorado
U.S. Geological Survey Open-File Report No. 97-116

Bates, R.L., and others 1947
Groundwater in geology of the Gran Quivira Quadrangle (Socorro and Torrance Counties), New Mexico
New Mexico Bureau of Mines and Mineral Resources Bulletin 26

Bell et al. 1993
Rio Grande land use inventory
Technical memorandum dated September 28, 1993

Bell, A.D., K.R. Blaney, K.J. Oliver, and R.E. Miller 1994
Middle Rio Grande water assessment: Middle Rio Grande land use trend analysis geographic information system data base
Middle Rio Grande Water Assessment, supporting document no. 13, U.S. Bureau of Reclamation, Albuquerque area office

Bexfield, L.M., and Anderholm, S.K. 1997
Water-quality assessment of the Rio Grande valley, Colorado, New Mexico, and Texas--Ground-water quality in the Rio Grande floodplain, Cochiti lake, New Mexico, to El Paso,
U.S. Geological Survey water-resources investigations report 96-4249

Birch, F.S. 1980
Geophysical evaluation of basin characteristics in the central Rio Grande part I. Gravity models of the Albuquerque-Belen Basin
University of New Hampshire

Birch, F.S. 1980
Geophysical evaluation of basin characteristics in the central Rio Grande part I. New gravity maps of the Albuquerque-Belen Basin, New Mexico
U.S. Geological Survey, unpublished report

Birch, F.S. 1982
Gravity models of the Albuquerque Basin, Rio Grande rift, New Mexico
Geophysics, Vol. 27, No. 8

Bishop, P.H. 1971
Tijeras Canyon No. 3 pump test (Bernalillo County)
New Mexico State Engineer Open File Report

Bishop, P.H. 1972
Geohydrology of the Magdalena area, Socorro County, New Mexico
New Mexico State Engineer Open File Report

Bjorklund, L. J., and B. W. Maxwell 1961
Availability of groundwater in the Albuquerque Area, Bernalillo and Sandoval Counties, New Mexico
New Mexico State Engineer Technical Report No. 21

Black, R.F., and W.C. Powell 1928
Preliminary report on the underground water in Socorro and Torrance Counties
New Mexico State Engineer 8th Biennial Report, 1926-1928

Blanchard, P.J. 1993
Ground-water-level fluctuations in the Cochiti Dam-Pena Blanca area, Sandoval County, New Mexico, 1976-1989
U.S. Geological Survey Water-Resources Investigation Report 92-4193

Bloodgood, D.W. 1930
The groundwater of the Middle Rio Grande Valley and its relation to drainage
New Mexico College of Agriculture, Agriculture Experiment Station, Bulletin 184

Bonem, G.W., M. Gisser, and M.C. Resta 1977
Water demand and supply in the Albuquerque greater urban area (AGUA). 1975-2030
University of New Mexico Bureau of Business and Economic Research

Borton, R.L. 1974
A listing of geohydrologic data for 106 exploratory holes drilled by Nuvlear Dynamics, Inc. in Rio Arriba, Sandoval and Santa Fe Counties, 1970-1972
New Mexico State Engineer Open-File Report

Brandwein, S.S. 1974
Chemical analyses, in selected shallow electrical resistivity surveys at Volcano Cliffs, Bernalillo County, and Warm Springs, Sandoval County, New Mexico
University of New Mexico Masters of Science thesis

Brasher, P.T. 1977
Occurrence and removal of arsenic from ground-water in the Albuquerque area
Albuquerque Water Resources Department

Brutsaert, W.F., and T.G. Gebhard, Jr. 1975
Conjunctive availability of surface and ground water in the Albuquerque area, New Mexico--A modeling approach
Groundwater, Vol. 13, No. 4

Bryan, K. 1926
Ground-water reconnaissance in Socorro County, New Mexico
New Mexico State Engineer 7th Biennial Report 1924-1926

Bullard, T.F., and S.G. Wells 1992
Hydrology of the Middle Rio Grande from Velarde to Elephant Butte Reservoir
U.S. Fish and Wildlife Service Resource Publication 179

Burroughs, J.	1959
Development of New Mexico's water resources problem	
Proceedings of the 4th Annual Water Conference, New Mexico State University	
Burton, Leyendecker and Leyendecker, Inc.	1974
Ground-water resources report for Fence Lake Ranches subdivision (Valencia County)	
Consultant report	
Burton, Leyendecker and Leyendecker, Inc.	1977
Pine Ridge Estates, Bernalillo County, geohydrology report	
Consultant report	
Busch	1995
Infiltration gallery installation alternative, Middle Rio Grande water assessment study	
Middle Rio Grande Water Assessment, technical memorandum, U.S. Bureau of Reclamation, Albuquerque area office	
Caprio, E.R.	1960
Water resources of the western slope of the Sandia Mountains, Bernalillo and Sandoval Counties, New Mexico	
University of New Mexico Masters of Science thesis	
Carter, R.H., Jr.	1955
Control of arroyo floods at Albuquerque, New Mexico	
American Society of Civil Engineers Proceedings, Vol.. 81, Paper 801	
CH2MHill	1995
Albuquerque water resources management strategy, San Juan-Chama Diversion Project	
Consulting report to the City of Albuquerque Public Works Department	
City of Albuquerque and Bernalillo County	1992
Ground-water protection policy and action plan--second draft	
Policy Coordinating Committee and CH2MHill	
Clark, J.D.	1929
The saline springs of the Rio Salado, Sandoval County, New Mexico	
University of New Mexico Bulletin, Chem. Ser. Vol. 1, No. 3	
Clark, J.D., and Mauger, H.	1932
The chemical characteristics of the waters of the middle Rio Grande conservancy district:	
The University of New Mexico Bulletin, v.2, no.2	
Clark, N.J., and W.K. Summers	1971
Records of wells and springs in the Socorro and Magdalena areas, Socorro County, New Mexico	
New Mexico Bureau of Mines and Mineral Resources Circular 115	
Clary, J.H., N.T. Korecki, and R.R. Mondragon	1984
Geology of Albuquerque, New Mexico, United States of America	
Bulletin of Association of Engineering Geologists, Vol. 21, No.2	
Connel, S.D.	1995
Quaternary geology and geomorphology of the Sandia Mountains piedmont, Bernalillo and Sandoval Counties, central New Mexico	
University of California, Riverside M.S. Thesis	

Conover, C.S. 1956
The ground-water situation in Albuquerque
U.S. Geological Survey Open -File Report

Conover, C.S. 1957
Municipal water supplies in New Mexico
American Water Works Association Journal, Vol. 49, No. 4

Cooper, J.B. 1966
Pilot hole of the University of New Mexico water well No. 7
U.S. Geological Survey Open-File Report (prepared for the University of New Mexico)

Craig, S.E. , and W.J. Stone 1982
Hydrogeology of the Chico Arroyo-Torreon Wash area, McKinley and Sandoval Counties, New Mexico
New Mexico Bureau of Mines and Mineral Resources-Hydrology

Crawford, C.S., A.C. Culley, R. Leutheuser, M.S. Sifuentes, L.H. White, and J.P. Plan 1993
Middle Rio Grande ecosystem: Bosque biological management plan
Middle Rio Grande Biological Interagency Team, Rio Grande Bosque Conservation Committee, U.S. Fish and Wildlife Service

Cummins 1994
"Analysis of soil textures and permeabilities" and "Deep percolation for the Kentucky Bluegrass" Middle Rio Grande water assessment
Middle Rio Grande Water Assessment, technical memorandum, U.S. Bureau of Reclamation, Albuquerque area office

Davis, M.J., S.J. Colarullo, and R. Lohmann 1990
Alluvial aquifer heterogeneities in the Rio Grande valley implications for groundwater
Technical completion reports, New Mexico water resource Research Institute, Las Cruces, NM

Dewey, J.D. 1981
Methods used to compute recharge for the Albuquerque-Belen sub-basin of the southwest alluvial basin study: 10th Annual Rocky Mountain Groundwater Conference, Laramie, WY, April 1981
10th Annual Rocky Mountain Groundwater Conference, Laramie, WY, April 30-May 2, 1981

Dewey, J.D. 1981
Methods used to estimate recharge for the Albuquerque-Belen Basin of the Southwest Alluvial Basin study, New Mexico
Proceedings of the 20th Annual Rocky Mountain Ground Water Conference

Dewey, J.D., F.E. Roybal, and D.E. Funderburg 1979
Hydrologic data on channel adjustments, 1970 to 1975, on the Rio Grande downstream from Cochiti Dam, New Mexico, before and after closure
U.S. Geological Survey water-resources investigations report 79-70

Dinwiddie, G.A. 1967
Rio Grande Basin--Geography, geology, and hydrology in water resources of New Mexico
New Mexico State Planning Office

Dixon, G.H., D.H. Baltz, T.F. Stripp, and R.A. Bieberman 1954
Records of wells drilled for oil and gas in New Mexico
U.S. Geological Survey Circular 333

Donnel, P.S. 1928
Report of ground-water determination
Middle Rio Grande Conservancy District Official Plan, Exhibit R-3

Duffy, C.J. 1981
Stochastic modeling of the spatial and temporal water-quality variations in ground-water (Rio Grande Valley)
New Mexico Geology Vol. 3, No. 3

Duisberg, P. C. 1955
Problems of the Upper Rio Grande: An Arid Zone River. Special symposium and discussion group of the International Arid Lands Symposium and Conference.
U.S. Commission for Arid Resource Improvement and Development. Publication No. 1

Earp, D. 1992
Results of ground-water monitoring at the Los Angeles Landfill, Albuquerque, New Mexico,
City of Albuquerque Environmental Health Department

Earth Environmental Consultants, Inc. 1978
Geohydrological conditions in the area of the Quail Run subdivision, Bernalillo County, New
Consultant report

Earth Environmental Consultants, Inc. 1979
Hydrogeology, supplement 2, in studies supplemental to the Arroyo No. 1 (Sandoval County)
permit application
Consultants report to Woodward-Clyde Consultants

Ellis, Lisa M. 1996
Seasonal flooding and riparian forest restoration in the middle Rio Grande valley: Final report to
U.S. Fish and Wildlife Service
New Mexico Ecological Services Field Office, Albuquerque, NM, U.S. Fish and Wildlife Service

Emery, M. M. 1976
Geohydrological report, (in Water supply and water-quality plans, Sandia Heights North, Unit II,
Bernalillo County, New Mexico: Bohannon, Westman, Huston and Assocs., Inc.)
Consultant report to Sandia Peak Tramway Co.

Fischer, E.E., and J.P. Borland 1983
Estimation of natural streamflow in the Jemez river at the boundaries of Indian lands, central
New Mexico
U.S. Geological Survey Water-resources investigations report 82-4113

Fischer, E.E., J.J. Rote, and J.P. Borland 1984
Rainfall-runoff data in the Albuquerque, New Mexico, metropolitan area, 1976-1983
U.S. Geological Survey Open-File Report 84-448

Follett, W.W. 1896
Report to the international boundary commission on the water supply and irrigation
development of the Rio Grande basin above Fort Quitman, Texas
U.S. Senate document 229, 55th congress, 2nd session

Foster, R.W. and W.J. Stone 1977
Hydrologic studies of the Socorro landfill site
New Mexico Bureau of Mines and Mineral Resources Open-File Report OF-86

French, J.A. 1919
Report of drainage investigations - Middle Rio Grande valley in New Mexico
Office of the State Engineer, Santa Fe, NM; State Engineer miscellaneous reports

Gabin, V.L. and L.E. Lesperance 1977
New Mexico climatological data--Precipitation, temperature, evaporation, and wind--Monthly annual means, 1850-1975: Socorro New Mexico
 Consultant report

Galusha, T., and J.C. Blick 1971
Stratigraphy of the Santa Fe Group, New Mexico
 American Museum of natural History Bulletin, Vol. 144

Geohydrology Associates, Inc. 1976
Well test and aquifer performance of Novak well, Tijeras (Bernalillo County), New Mexico
 Consultant report to Marchiando and Berry

Geohydrology Associates, Inc. 1976
Probable effects of long term pumping of Love well, Sandia Heights development area, Bernalillo County, New Mexico, in Water Supply and water quality plans, Sandia Heights North, Unit II, Bernalillo County, New Mexico
 Consultant report to Bohannan, Westman, Huston and Associates

Geohydrology Associates, Inc. 1977
Hydrologic conditions at Don Carlos Subdivision, Bernalillo County, New Mexico
 Consultant report to Frank Benevidez Survey

Geohydrology Associates, Inc. 1980
Hydrologic conditions at El Cerro Mission subdivision, Valencia County, New Mexico
 Consultant report to Van Camp Investors Diversified

Geohydrology Associates, Inc. 1980
Investigation of the high ground-water table in the areas of Pena Blanca, Cochiti Pueblo, and Sile (Sandoval County), New Mexico
 Consultant report to the Army Corps of Engineers

Goetz, C.L. 1985
Potential incremental seepage losses in an alluvial channel in the Rio Grande basin, New Mexico
 U.S. Geological Survey Water-resources investigations report 84-4268

Goetz, C.L. and S.G. Shelton 1990
Infiltration and evapotranspiration within the Albuquerque, New Mexico area with a section on historical water-resources trends during the 1954-1980's period of urban growth
 U.S. Geological Survey Water-Resources Investigations report 90-4055

Gordon, N.D. 1982
A hydrologic simulation model for the Otowi-Cochiti reach of the Rio Grande
 Graduate school report series, graduate school of New Mexico State University, Las Cruces, NM

Gould, J.L. 1994
Middle Rio Grande water assessment: Middle Rio Grande channel permeameter investigation
 Middle Rio Grande Water Assessment, supporting document no. 11, U.S. Bureau of Reclamation, Albuquerque area office

Gould, J.L. 1995
Middle Rio Grande water assessment: Middle Rio Grande basin surface water budget for calendar years 1935, 1955, 1975, and 1993
 Middle Rio Grande Water Assessment, supporting document no. 15, U.S. Bureau of Reclamation, Albuquerque area office

Gould, J.L. Middle Rio Grande conservancy district water management study plan U.S. Bureau of Reclamation, Albuquerque, NM	1996
Gould, J.L. Rio Grande conveyance loss investigation Isleta to San Acacia U.S. Bureau of Reclamation, Albuquerque, NM	1997
Gould, J.L., and S. Hansen Middle Rio Grande water assessment: Canal seepage field investigations performed November Middle Rio Grande Water Assessment, supporting document no. 12, U.S. Bureau of Reclamation, Albuquerque area office	1994
Grambling, J.A., and S.G. Wells Albuquerque county II: Socorro, New Mexico Geological Society guidebook, 33rd field New Mexico Geological Society, 33rd field conference	1982
Groundwater Management, Inc. Pumping test data analysis, Charles well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Candelaria well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Leyendecker well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Yale well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Love well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Leavitt well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Duranes well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Webster well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Don well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988

Groundwater Management, Inc. Pumping test data analysis, College well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Griegos well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Thomas well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Miles Road well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Burton well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Walker well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Ponderosa well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Volcano Cliffs well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Santa Barbara well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, San Jose well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Lomas well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Groundwater Management, Inc. Pumping test data analysis, Vol. Andia well field, City of Albuquerque, New Mexico Consultant report submitted to the city of Albuquerque	1988
Hacker, L.W. Soil survey of Bernalillo County and parts of Sandoval and Valencia Counties U.S. Department of Agriculture, Soil Conservation Service	1977

Hagerman, C. de B.
General geology, water resources and ground-water conditions of the Arroyo de Yrisarri area, Bernalillo and Torrance Counties, New Mexico
 Consultant report to Manzano Springs residents

Hagerman, C. de B. 1969
Availability of water, Patrick W. Hurley and Wiley W. barefoot tracts, New Mexico Project No. 1-040-3(18)169, Bernalillo County, New Mexico
 New Mexico State Highway Department Report

Hagerman, C. de B. 1973
Availability of water, tract numbers 15-3, 16-1, 16-16, Project No. 1-040-3(18)169, Bernalillo County, New Mexico
 New Mexico State Highway Department Report

Hall, F.R. and F.X. Bushman 1963
New Mexico Geological Society guidebook, 14th field conference: Socorro region
 New Mexico Geological Society, 14th field conference

Haneberg, W.C. 1995
Depth-porosity relationships and virgin specific storage estimates for the upper Santa Fe Group aquifer system, central Albuquerque Basin, New Mexico
 New Mexico Geology, Vol. 17, No. 4

Haneberg, W.C., and Hawley, J.W. (eds.) 1996
Characterization of hydrogeologic units in the northern Albuquerque basin
 New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-C

Haneberg, W.C., P. Gomez, A. Gibson, B. Allred 1998
Preliminary measurements of stress-dependant hydraulic conductivity of Santa Fe Group aquifer system sediments from the 98th St. core hole, Albuquerque, New Mexico
 New Mexico Geology

Hansen, S, and C. Gorbach 1997
Middle Rio Grande water assessment final report
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office

Hansen, S. 1994
1994 paired-sample surface water budget for the Middle Rio Grande- Albuquerque reach: Middle Rio Grande water assessment technical memorandum
 Middle Rio Grande Water Assessment, technical memorandum, U.S. Bureau of Reclamation, Albuquerque area office

Hansen, S. 1994
Middle Rio Grande water assessment: Riparian corridor alluvium steady state ground water investigation concerning Rio Grande channel loss contributions to recharge, final draft
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office; and the City of Albuquerque

Hansen, S. 1994
Middle Rio Grande water assessment: Detailed surface water budget for the Albuquerque reach for the Rio Grande during the 1993 & 1994 study period
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office; and the City of Albuquerque

Happ, S.C. 1948
Sedimentation in the Middle Rio Grande Valley, New Mexico
 Geological Society of America Bulletin, Vol. 59, No. 12

Hassan, A.A. 1970
Vertical distribution of exchangeable cations in soils of arid zones as an indication to the depth of water infiltration (Socorro County)
Selected water resources abstracts

Hawley, J.W. (compiler) 1978
Guidebook to the Rio Grande rift in New Mexico and Colorado
New Mexico Bureau of Mines and Mineral Resources Circular No. 163

Hawley, J.W. and C.S. Haase 1992
Hydrogeologic framework of the northern Albuquerque Basin.
New Mexico Bureau of Mines and Mineral Resources open-file report 387

Hawley, J.W., and T.M. Whitworth 1996
Hydrogeology of potential recharge areas for the basin and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico
New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D (2 volumes)

Hawley, J.W., F.E. Kottlowski, W.R. Seager, W.E. King, W.S. Strain, and D.V. LeMone 1969
The Santa Fe Group in the south-central New Mexico border region, in Border Stratigraphy
New Mexico Bureau of Mines and Mineral Resources Circular No. 104

Hearne, G.A., and J.D. Dewey 1988
Hydrologic analysis of the Rio Grande basin north of Embudo, New Mexico, Colorado and New
U.S. Geological Survey Water-resources investigations report 86-4113

Heath, D.L. 1983
New Mexico Geological Society Guidebook, 34th field conference, Socorro Region II, New Mexico
Geological Society Guidebook, 34th field conference

Heggen, R.J., B.M. Thomson, J.R. Matthews, and A. Tefera 1979
Groundwater quality study, city of Albuquerque, north valley
University of New Mexico Bureau of Engineering Research, College of Engineering Report CE-812-1.

Hernandez, J. 1996
Report on the legal and institutional considerations associated with alternative management strategies for the sustainable conjunctive-use of the surface and ground -water resources of the Middle Rio Grande basin in New Mexico
Prepared for U.S. Bureau of Reclamation by the New Mexico Water Resources Research Institute

Hernandez, J.W. 1996
Middle Rio Grande water assessment: Report on the legal and institutional considerations associated with alternative management strategies for the sustainable conjunctive-use of the surface and ground-water resources of the Middle Rio Grande Basin in NM
Middle Rio Grande Water Assessment, supporting document no. 21, U.S. Bureau of Reclamation, Albuquerque area office

Hiss, W.L., F.W. Trainer, B.A. Black, and D.R. Posson 1975
New Mexico Geological Society guidebook to Las Cruces country, 26th field conference
New Mexico Geological Society, 26th field conference

Hodges, P.V. 1938
Report on irrigation and water supply of the Pueblos of New Mexico in the Rio Grande basin
U.S. Indian irrigation service report

Hohweiler, L.A. 1996
A method for predicting land subsidence as a result of groundwater withdrawal, Albuquerque, New Mexico
University of New Mexico M.S. thesis

Hudson, J.D. 1982
Water-level map of the San Jose well field and vicinity, Albuquerque, New Mexico, spring 1981
U.S. Geological Survey Open-File Report 82-375

Hydrotechnics 1973
Hydrology of the Horizon-Crowder property, Valencia and Socorro Counties, New Mexico
Consultant report to Horizon Corporation, Tucson

Hydrotechnics 1974
Pump test of well 3.4.3.1212, Tierra Grande Estates (Unit 24, Block 8, lots 10 and 11), Valencia County, New Mexico
Consultant report to Horizon Corporation, Inc., Albuquerque

Hydrotechnics 1976
Pump test of Sierra Vista South Estates well (10.5.2.14), Bernalillo County, New Mexico
Consultant report to A and E Engineering, Albuquerque

Hydrotechnics 1976
Pump test of Sierra Vista-South Estates well 1 (10.5.2.141), Bernalillo County, New Mexico
Consultant report to Sierra Vista Estates, Albuquerque

Interstate Stream Commission 1994
Regional Water Planning Handbook
New Mexico Interstate Stream Commission

Irby, F.E. 1957
The ground-water situation in the Rio Grande underground water basin
New Mexico State Engineer Open-File Report

Jenkins, D.N. 1979
Geohydrologic investigation at the Alameda North Mobile Home park, Bernalillo County, New Mexico
Consultant report to Kenneth Mount and Associates

Jenkins, D.N. 1981
Geohydrology in the vicinity of the proposed Juan Tomas subdivision, eastern Bernalillo County, New Mexico
Consultant report

Joesting, H.R., J.E. Case, and L.E. Cordell 1961
The Rio Grande trough near Albuquerque
U.S. Geological Survey Professional Paper 424-D

Kaehler, C.A. 1990
Lithology of basin-fill deposits in the Albuquerque-Belen Basin, New Mexico
U.S. Geological Survey Water-Resources Investigations Report 89-4162

Kelly, T.E. 1970
Saline ground water resources of the Rio Grande drainage basin
6th American Water Resources Conference

Kelly, T.E. 1974
Reconnaissance investigation of ground water in the Rio Grande drainage basin--with special emphasis on saline ground-water resources
U.S. Geological Survey, Hydrologic Investigations Atlas HA-510

Kelly, T.E. 1977
Hydrologic conditions at El Cerro Loop subdivision, Valencia County, New Mexico
Consultant report

Kelly, T.E. 1977
Hydrologic conditions at Don Carlos subdivision, Bernalillo County, New Mexico
Consultant report to Frank Benavidez Surveying

Kelly, T.E. 1977
Hydrologic conditions at Industrial Realty Corporation addition, Bernalillo County, New Mexico
Consultant report to Industrial Real Estate Corporation

Kelly, V.C. 1977
Geology of the Albuquerque Basin, New Mexico: Socorro
New Mexico Bureau of Mines and Mineral Resources Memoir 33

Kelly, V.C., L.A. Woodward, A.M. Kudo, and J.F. Callender 1976
Guidebook to Albuquerque basin of the Rio Grande rift, New Mexico
New Mexico Bureau of Mines and Mineral Resources Circular 153

Kelton, A. 1998
A comprehensive history of Middle Rio Grande water supplies and assessment
Alliance for Rio Grande Heritage

Kernodle, J., R. Miller & W. Scott 1987
Three-dimensional model simulation of transient ground-water flow in the Albuquerque-Belen Basin, New Mexico
U.S. Geological Survey Water-Resources Investigation Report 86-4194

Kernodle, J.M. 1997
Computer input and output files associated with ground-water flow simulations of the Albuquerque Basin, central New Mexico, 1901-1995, with projections to 2020 (Supplement one to USGS WRR1 94-4251)
U.S. Geological Survey Open-File Report 96-208

Kernodle, J.M. 1997
Computer input and output files associated with ground-water flow simulations of the Albuquerque Basin, central New Mexico, 1901-1994, with projections to 2020 (Supplement three to USGS WRR1 94-4251)
U.S. Geological Survey Open-File Report 96-210

Kernodle, J.M., and W.B. Scott 1986
Three-dimensional model simulation of steady state ground-water flow in the Albuquerque-Belen Basin, New Mexico
U.S. Geological Survey Water-Resources Investigation Report 84-4353

Kernodle, J.M., D.P. McAda, and C.R. Thorn 1995
Simulation of ground-water flow in the Albuquerque Basin, central New Mexico, 1901-1994, with projections to 2020
U.S. Geological Survey Water-Resources Investigations Report 94-4251, and The City of Albuquerque Publics Work Department

Kernodle, J.W.	1998
Simulation of ground-water flow in the Albuquerque basin, Central New Mexico, 1901-1995, with projection to 2020	
U.S. Geological Survey Open-File Report 96-209	
King, Dr. Phillip J., and L. Wan	1997
Middle Rio Grande water assessment: Determination of soil conservation service modified Blaney-Criddle crop coefficients in New Mexico	
Middle Rio Grande Water Assessment, supporting document no. 5, U.S. Bureau of Reclamation, Albuquerque area office	
King, W.E. and others	1969
Hydrogeology of the Rio Grande Valley and adjacent inter-montane areas of southern New Mexico	
New Mexico Water Resources Research Institute Report 6	
King, W.E., J. W. Hawley, and T.E. Cliett	1971
Santa Fe Group and Rio Grande valley-fill aquifers in south-central New Mexico border region	
Geological Society of America, 5th Annual Meeting, Vol. 3, No. 3	
Kinney	1976
Determination and evaluation of flood protection alternatives for the middle Rio Grande floodway, Bernalillo to Belen, New Mexico; Hydrology and hydraulics	
U.S. Army Corps of Engineers, Albuquerque district, NM, contract DACW 47-76-C-0006	
Knutilla, R.L., and J.E. Veenhuis	1994
Computer simulation of storm runoff for three watersheds in Albuquerque, New Mexico	
U.S. Geological Survey Water-resources investigations report 94-4143	
Koopman, F.C. and J.W. Mercer	1975
Hydrologic testing of Shell Isleta #1 (Wildcat), Valencia County, New Mexico	
U.S. Geological Survey memo report to the Mayor of Albuquerque	
Kues, G.E.	1986
Groundwater levels and direction of groundwater flow in the central part of Bernalillo County, New Mexico, summer 1983	
U.S. Geological Survey Water-Resources Investigations Report 85-4325	
Kues, G.E.	1987
Groundwater level data for the Albuquerque-Belen Basin, New Mexico, through water year 1985	
U.S. Geological Survey Open-File Report 87-116	
Kues, G.E. and B.M. Garcia	1995
Groundwater quality and groundwater level data, Bernalillo County, central New Mexico,	
U.S. Geological Survey Open-File Report 95-385	
Lansford, R.R., E.T. Garnett, and B.J. Creel	1973
An analytical interdisciplinary evaluation of the utilization of the water resources of the Rio Grande in New Mexico--Middle Rio Grande	
New Mexico Water Resources Research Institute Report 22	
Lansford, R.R., et al	1988
Water supply and demand for New Mexico 1985-2030: Resource data base	
New Mexico Water Resources Research Institute, Miscellaneous Report No. 18	

Lee, W.T.	1907
Water resources of the Rio Grande Valley in New Mexico and their development	
U.S. Geological Survey Water-Supply Paper 188	
Levings, G.W., D.F. Healy, S.F. Richey, and L.F. Carter	1998
Water quality in the Rio Grande valley, Colorado, New Mexico, and Texas, 1992-1995	
U.S. Geological Survey circular 1162	
Lingle, R.T.	1953
Report of the Municipal Water Department on their 36th year of operations	
City of Albuquerque	
Logan, L.M.	1990
Geochemistry of the Albuquerque municipal area, Albuquerque, New Mexico: Socorro	
New Mexico Institute of Mining and Technology, M.S. thesis	
Lozinsky, R.P. and R.H. Tedford	1991
Geology and paleontology of the Santa Fe Group, southwestern Albuquerque Basin, Valencia County, New Mexico	
New Mexico Bureau of Mines and Mineral Resources Bulletin 132	
Manley, K.	1978
Geologic map of Bernalillo NW Quadrangle, Sandoval County, New Mexico	
U.S. Geological Survey, Geologic Quadrangle Map GQ-1446, scale 1:24,000	
Mauger, H.	1932
The waters of the middle Rio Grande conservancy district: Albuquerque	
University of New Mexico M.S. thesis	
Maxwell, B.W.	1960
Availability of ground water for irrigation near Zia Pueblo, Sandoval County, New Mexico	
U.S. Geological Survey Open-File Report	
McAda, D.	1996
Plan of study to quantify the hydrologic relations between the Rio Grande and the Santa Fe Group Aquifer System near Albuquerque, Central New Mexico	
U.S. Geological Survey Water-Resources Investigation Report 96-4006	
Meeks, T.O.	1949
The occurrence of ground water in the Tijeras Soil Conservation District, Bernalillo County, New Mexico	
U.S. Department of Agriculture Soil Conservation Service Regional Bulletin 109	
Metzker, K.D., R.L. Gold, and R.P. Thomas	1993
Rainfall and runoff data for the Albuquerque, New Mexico metropolitan area, 1984-1988	
U.S. Geological Survey Open-File report 92-653	
Middle Rio Grande Council of Governments	1997
Regional water planning for the Middle Rio Grande Region	
Proposal to the New Mexico interstate Stream Commission	

Milhouse, R.T.	1994
Instream flows and cottonwood establishment in the Bosque del Apache reach of the Rio Grande, in Herndon, Va., American Water Resources Association, Proceedings of the 1994 American Water Resources Association Annual Summer Symposium	
Milhouse, R.T.	1995
Hydrology and sedimentation in the Bosque del Apache reach of the Rio Grande, in Herndon, Va., American Water Resources Association, Proceedings of the 1995 American Water Resources Association Annual Spring Symposium	
Monteverde, J.	1973
Geohydrologic report for the Great Bear Lake subdivision, T. 8 N., R. 6 E., Section 11 (Bernalillo County) Consultant report	
Murray, C.R.	1942
Report on an investigation of water resources east of Albuquerque, New Mexico U.S. Geological Survey Open-File Report	
New Mexico Interstate Stream Commission and New Mexico State Engineers Office	1974
County Profile-Sandoval County, Water resources assessment for planning purposes U.S. Bureau of Reclamation, 1976, New Mexico water resources assessment for planning purposes-Supporting data, Vol. 4	
New Mexico Interstate Stream Commission and New Mexico State Engineers Office	1974
County Profile-Valencia County, Water resources assessment for planning purposes U.S. Bureau of Reclamation, 1976, New Mexico water resources assessment for planning purposes-Supporting data, Vol. 4	
New Mexico Interstate Stream Commission and New Mexico State Engineers Office	1974
County Profile-Bernalillo County, Water resources assessment for planning purposes U.S. Bureau of Reclamation, 1976, New Mexico water resources assessment for planning purposes-Supporting data, Vol. 3	
New Mexico Interstate Stream Commission and New Mexico State Engineers Office	1974
County Profile-Socorro County, Water resources assessment for planning purposes U.S. Bureau of Reclamation, 1976, New Mexico water resources assessment for planning purposes-Supporting data, Vol. 4	
New Mexico State Engineer	1956
Climatological summary, New Mexico--precipitation 1849-1954 New Mexico State Engineer Technical Report 6	
New Mexico State Engineers Office	1959
Hydrologic summary: New Mexico streamflow and reservoir content 1888-1954 State of New Mexico, State Engineer Office, Technical Report No. 7	
New Mexico State Planning Office	1967
Water resources of New Mexico--Occurrence, development, and use New Mexico State Planning Office	
New Mexico Water Quality Control Commission	1976
Middle Rio Grande Basin plan New Mexico Water Quality Control Commission	

New Mexico Water Resources Research Institute Proceedings of the 31st Annual New Mexico Water Conference: Managing the river New Mexico Water Resources Research Institute Report No 219	1987
New Mexico Water Resources Research Institute Proceedings of the 32nd Annual New Mexico Water Conference: Ground water management New Mexico Water Resources Research Institute Report No. 229	1988
New Mexico Water Resources Research Institute Proceedings of the 39th Annual New Mexico Water Conference: The water future of Albuquerque and the Middle Rio Grande Basin New Mexico Water Resources Research Institute report No. 290	1995
Northrop, S.A. New Mexico Geological Society Guidebook of the Albuquerque County, 12th field conference New Mexico Geological Society, 12th field conference	1961
Ong, O'Brien and Rucker Reconnaissance investigation of the water quality, bottom sediment, and biota associated with irrigation drainage in the Middle Rio Grande Valley and Bosque Del Apache National Wildlife Refuge, New Mexico, 1988-1989 U.S. Geological Survey Open-File Report 91-4036	1991
Patterson, T. C. Geohydrological conditions in the area of Capital Estates subdivision, Bernalillo County, New Mexico Consultant report	1978
Patterson, T.C. Geohydrological conditions and potential of existing wells--Entranosa Water Corporation--Suppliers to the proposed Steeplechase subdivision, Bernalillo County, New Mexico Consultant report to Sweenhart Engineering and Santa Fe Builders Supply, Inc	1979
Peter, K.D. Groundwater flow and shallow aquifer properties in the Rio Grande inner valley, south of Albuquerque, Bernalillo County, New Mexico U.S. Geological Survey Water Resources Division, U.S. Geological Survey Water Resources Investigations Report 87-4015	1987
Rankin, D.R. Water-level data for the Albuquerque Basin, New Mexico, October 1, 1986 through September 1987 U.S. Geological Survey Open-File Report 94-349	1994
Reeder, H.O., L.J. Bjorklund, and G.A. Dinwiddie Quantitative analysis of water resources in the Albuquerque area, New Mexico New Mexico State Engineer Technical Report No. 33	1967
Renick, B.C. The geology and ground-water resources of western Sandoval County, New Mexico U.S. Geological Survey Water-Supply Paper 620	1931
Reppening, C.A., and S.E. Galloway Memorandum on ground-water investigation of four proposed stock wells in the Puertocito area, Socorro County, and Canoncito area, Bernalillo and Sandoval Counties, New Mexico U.S. Geological Survey Open-File Report	1952

Richey, S.F. 1991
Construction, lithologic, and geophysical data from monitoring wells in Albuquerque, Bernalillo County, New Mexico
U.S. Geological Survey Open-File Report 90-578

Robinson, H.F., and J.M. Frame 1936
Underground water conductance, Middle Rio Grande Valley
Middle Rio Grande Conservation District

Roelle, J.E., and W.W. Hagenbuck 1994
Surface cover maps of the Rio Grande floodplain from Velarde to Elephant Butte Reservoir, New Mexico
National Biological Survey Midcontinent Ecological Service Center, Fort Collins

Roelle, J.E., and W.W. Hagenbuck 1994
Surface cover changes in the Rio Grande floodplain, 1935-1989, in LaRoe, E.T., et al., Our living resources: A report to the nation on the distribution, abundance, and health of U.S. plants, animals, and ecosystems
National Biological Service

Russel, L.R., and S. Snelson 1994
Structural style and tectonic evolution of the Albuquerque basin segment of the Rio Grande rift, New Mexico, U.S.A., in Landon, S.M. editor, Interior Rift Basins
American Association of Petroleum Geologists Memoir 59

Russel, L.R., and S. Snelson 1994
Structure and tectonics of the Albuquerque Basin segment of the Rio Grande rift: Insights from reflection seismic data
Geological Society of America, Special Paper 291

Sandia National Laboratories 1997
Evaluation of groundwater flow and hydrogeologic conceptual model, Kirkland air force base, Albuquerque, New Mexico: Environmental Restoration Project
U.S. Department of Energy, Albuquerque operations office

Sawyer, D.A., V.J.S. Grauch, G.A. Smith, A.J. Kuhle, D.P. Dethier, B. Rodriguez, and M. Deszcz-Pan 1997
Hydrogeology of the Santa Fe group aquifer system in the Cochiti Pueblo area based on geologic mapping and airborne geophysics
Geological Society of America abstracts with programs

Schneider, W.J. 1968
Albuquerque, Bernalillo County, New Mexico in water data for metropolitan areas
U.S. Geological Survey Water-Supply Paper 1871

Science Applications International Corporation 1998
Draft Work Plan for the Upper Rio Grande Basin Water Operations Review
U.S. Army Corps of Engineers, Albuquerque district, U.S. Bureau of Reclamation

Scofield, C.S. 1938
Quality of water of the Rio Grande Basin above Fort Quitman, Texas
U. S. Geological Survey Water-Supply Paper 839

Scott, C.H. 1982
Investigation of water table in vicinity of Cochiti Dam, Sandoval County, New Mexico:
U.S. Army Corps of Engineers contract DACW47-81-C-0027

Scurlock, Dan 1998
From the Rio to the Sierra: An environmental history of the Middle Rio Grande Basin
 USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO, General Technical Report
 RMRS-GTR-5

Sheehan, Sheehan and Stelzner, P.A. 1993
Middle Rio Grande Conservancy District water policies plan
 Middle Rio Grande Conservancy District

Shomaker, J.W. 1975
**Drilling and testing of wells in shallow alluvium of Rio Grande channel, Buckman area, Santa Fe
 County, New Mexico**
 Consulting report to Black and Veatch, Denver

Shomaker, J.W. 1988
Well report, City of Albuquerque well SAF-1
 Consulting report to the City of Albuquerque Public Works Department

Shomaker, J.W. 1990
Well report--City of Albuquerque Love No.8
 Consulting report to the City of Albuquerque Public Works Department

Shomaker, J.W. 1991
Well report--City of Albuquerque Gonzales No.2
 Consulting report to the City of Albuquerque Public Works Department

Shomaker, J.W., Finch, S.T. Jr., and Pearson, J.W. 1994
Effects of pumping water-supply wells, Intel Corporation, Sandoval county, New Mexico
 Consultant report for Intel Corporation, New Mexico State Engineer Office (related well file numbers
 RG-57125 through RG-57125-S-2)

Shupe, S.J., and J. Folk-Williams 1988
The upper Rio Grande: A guide to decision-making
 Western Network

Simons, Li & Associates 1981
Temporal and spatial design of the representative hydrologic network for the Rio Grande
 U.S. Army of Corps of Engineers, Albuquerque, NM

Simons, Li & Associates 1981
**Evaluation of river response on the Rio Grande form Bernardo to Elephant Butte Dam
 considering various alternatives of development**
 U.S. Army of Corps of Engineers, Albuquerque, NM

Slate, J. 1998
**U.S. Geological Survey Middle Rio Grande Basin study: Proceedings of the 2nd annual
 workshop, Albuquerque, New Mexico, February 10-11, 1998**
 U.S. Geological Survey Open-File Report 98-337

Slichter, C.S. 1905
Observations on the ground waters of the Rio Grande Valley
 U.S. Geological Survey Water-Supply Paper 141

Smith, G.A., and A.J. Kuhle 1998
**Hydrostratigraphic implications of new geological mapping in the Santo Domingo Basin, New
 Mexico Geology, Vol. 20**

Soister, P.E.	1952
Water resources in Geology of Santa Ana Mesa and adjoining area, Sandoval County, New Mexico New Mexico State University Masters of Science thesis	
Speigel, Z.	1956
Investigation of water supply for proposed school at Canon, Sandoval County New Mexico State Engineer Open-File Report	
Spiegel, Z.	1955
Geology and groundwater resources of northeastern Socorro County, New Mexico New Mexico Bureau of Mines and Mineral Resources, Groundwater report 4	
Summers, W.K.	1973
A hydrogeologic report on the city of Socorro well No. 1 Consultant report to the city of Socorro	
Summers, W.K.	1978
A hydrologic assessment of the Malela well (11N. 6E. 22.1411) (Bernalillo County) Consultant report to R.M. Bishop	
Summers, W.K.	1992
Albuquerque's water table--Winter 1988-89 New Mexico Geology	
Summers, W.K.	1992
Effects of Albuquerque's pumpage on the Rio Grande and the rate at which Albuquerque will have to release San Juan-Chama water to offset them City of Albuquerque internal memorandum	
Summers, W.K.	1995
Land use trends and their effect on water use and the hydrologic budget in the Albuquerque Basin, New Mexico Middle Rio Grande Water Assessment, supporting document no. 14 U.S. Bureau of Reclamation, Albuquerque area office	
Summers, W.K., and J.W. Shoemaker	1989
Deep groundwater testing in Santa Fe Group, Albuquerque, New Mexico American Association of Petroleum Geologists Bulletin 73	
Summers, W.K., R.M. Colpitts, and G.E. Schwab	1981
Hydrogeological evaluation of the Industrial Park area, Socorro, New Mexico Consultant report to city of Socorro	
Theis, C.V.	1942
Ground-water supplies near Veterans Administration Facility, Albuquerque, New Mexico U.S. Geological Survey Open-File Report	
Theis, C.V.	1963
Geology and ground-water conditions in Eastern Valencia County, New Mexico New Mexico Bureau of Mines and Mineral Resources Ground-Water Report 7	
Theis, C.V.	1991
Short papers on water resources in New Mexico, 1937-1957 U.S. Geological Survey Open-File Report 91-81	

Theis, C.V., and G.C. Taylor Groundwater conditions in the Middle Rio Grande Valley, New Mexico New Mexico State Engineer, 12th - 13th Biennial Reports, 1934-1938	1939
Thomas, C.L. Infiltration and quality of water for two Arroyo channels, Albuquerque, New Mexico, 1988-1992 U.S. Geological Survey Water-Resources Investigation Report 95-4070	1995
Thompson Urbanization and the Middle Rio Grande Conservancy District Geological Review, Vol. 26, No. 1	1986
Thorn, C., D. McAda, & J. Kernodle Geohydrologic framework and hydrologic conditions in the Albuquerque Basin, Central New U.S. Geological Survey Water-Resources Investigation Report 93-4149	1993
Thorn, C.R. Surface-water discharge and evapotranspiration rates for grass and bare soil along a reach of the Rio Grande, Albuquerque, New Mexico, 1989-1995 U.S. Geological Survey Open-File Report 95-419	1995
Tiedeman, C., J.W. Kernodle, and D. McAda Application of nonlinear-regression methods to a ground-water flow model of the Albuquerque Basin, New Mexico U.S. Geological Survey Water-Resources Investigation Report 98-4172	1998
Titus, F.B. Jr. Geology and ground-water conditions in eastern Valencia County, New Mexico New Mexico Bureau of Mines and Mineral Resources Ground-Water Report 7	1963
Trauger, F.D. Memorandum on ground water for public supply at the Canoncito Reservation Day School, Bernalillo County, New Mexico U.S. Geological Survey Open-File Report	1953
Trauger, F.D. Reconnaissance investigation of hydrologic conditions near Pena Blanca (Sandoval County), New Mexico Consultant report to Earth Environmental Consultants	1973
Turney, P. Rio Grande depletion analysis: A presentation to the New Mexico section of the American Water Resources Association conference on Rio Grande basin hydrology Interstate Stream Commission	1991
U.S. Army Corps of Engineers Albuquerque greater urban water supply U.S. Army Corps of Engineers, Albuquerque District, Hydrologic Engineering Center	1979
U.S. Army Corps of Engineers 1979-1981, Albuquerque greater urban area water supply study U.S. Army Corps of Engineers, Albuquerque district, Hydrologic Engineering Center	1981

U.S. Army Corps of Engineers Plan of study, Rio Grande and tributaries, water conservation/management U.S. Army Corps of Engineers, Albuquerque district	1983
U.S. Army Corps of Engineers Reevaluation of the Rio Grande operating plan U.S. Army Corps of Engineers, Albuquerque District	1989
U.S. Bureau of Reclamation Middle Rio Grande water assessment: Phreatophyte investigations Bernardo transpirometers (final progress report) - draft, not published Middle Rio Grande Water Assessment, supporting document no. 4, U.S. Bureau of Reclamation, Albuquerque area office	
U.S. Bureau of Reclamation Plan for development of the Middle Rio Grande Project, Rio Grande Basin U.S. Bureau of Reclamation	1947
U.S. Bureau of Reclamation Middle Rio Grande project, study of valley consumptive use and irrigation demand at Otowi, Albuquerque, NM U.S. Bureau of Reclamation	1947
U.S. Bureau of Reclamation Progress report--Phreatophyte investigations--Bernardo Evapotranspirometers U.S. Bureau of Reclamation, Middle Rio Grande Project Office	1973
U.S. Bureau of Reclamation Evapotranspirometer studies of Salt Cedar near Bernardo, New Mexico U.S. Bureau of Reclamation, Albuquerque Development Office	1973
U.S. Bureau of Reclamation New Mexico water resources for planning purposes U.S. Bureau of Reclamation, Supporting data volumes 3 and 4	1976
U.S. Bureau of Reclamation Final environmental impact statement, operation and maintenance program for the Rio Grande, Velarde to Caballo dam, Rio Grande and Middle Rio Grande projects, New Mexico U.S. Bureau of Reclamation FES 77-8	1977
U.S. Bureau of Reclamation San Juan-Chama project incremental channel loss study between Cochiti Dam and Elephant Butte Reservoir Upper Rio Grande Basin projects office, Albuquerque, NM	1985
U.S. Bureau of Reclamation Middle Rio Grande water assessment: Ground water quality report Middle Rio Grande Water Assessment, supporting document no. 1, U.S. Bureau of Reclamation, Albuquerque area office	1992
U.S. Bureau of Reclamation Middle Rio Grande water assessment: Analysis of soils textures and permeabilities; Deep Percolation for Kentucky bluegrass Middle Rio Grande Water Assessment, supporting document no. 7, U.S. Bureau of Reclamation, Albuquerque area office	1993

U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Drilling, logging, monitoring well installation; hydraulic conductivity tests; and infiltration gallery feasibility evaluation technical memoranda
Middle Rio Grande Water Assessment, supporting document no. 8, U.S. Bureau of Reclamation, Albuquerque area office

U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Surface water quality report
Middle Rio Grande Water Assessment, supporting document no. 2, U.S. Bureau of Reclamation, Albuquerque area office

U.S. Bureau of Reclamation 1994
Hydraulic conductivity tests- November 1-5, 1993: Middle Rio Grande water assessment
Middle Rio Grande Water Assessment, technical memorandum, U.S. Bureau of Reclamation, Albuquerque area office

U.S. Bureau of Reclamation 1994
Middle Rio Grande channel permeameter investigations technical memorandum, draft report
Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office, New Mexico Interstate Stream Commission

U.S. Bureau of Reclamation 1994
Middle Rio Grande water assessment: Non-agricultural water use
Middle Rio Grande Water Assessment, supporting document no. 3, U.S. Bureau of Reclamation, Albuquerque area office, and the City of Albuquerque

U.S. Bureau of Reclamation 1995
Middle Rio Grande water assessment: Flood wave test and transient groundwater analysis, technical memorandum
Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, U.S. Geological Survey, Bureau of Indian Affairs

U.S. Bureau of Reclamation 1995
Flood wave test and transient groundwater analysis: Middle Rio Grande water assessment
Middle Rio Grande Water Assessment, technical memorandum, U.S. Bureau of Reclamation, Albuquerque area office

U.S. Bureau of Reclamation 1995
Middle Rio Grande water assessment: Estimates of consumptive use requirements for irrigated agriculture and riparian vegetation, Volume I & Volume II
Middle Rio Grande Water Assessment, supporting document no. 6, U.S. Bureau of Reclamation, Albuquerque area office

U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1997
Upper Rio Grande Water Operations Model plan for development
U.S. Bureau of Reclamation, Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission

U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1998
Conceptualization of the test case reach of the Upper Rio Grande Water Operations Model
U.S. Bureau of Reclamation, Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission

U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1998
Upper Rio Grande Water Operations Model draft description of rules for the Rio Chama Full-Forecast Model
U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission

U.S. Geological Survey 1958
Chemical quality of ground-water, Bernalillo County
U.S. Geological Survey Open-File maps

U.S. Geological Survey 1960
Chemical quality of ground-water, Valencia County
U.S. Geological Survey Open-File maps

U.S. National Resources Committee	1938
The Rio Grande joint investigation in the Upper Rio Grande Basin in Colorado, New Mexico, and Texas, 1936-1937; regional planning part VI	
U.S. National Resources Committee, Regional Planning U.S. Government Printing Office	
Ugrinic, G.M.	1950
The geology and ground-water resources of Bernalillo County, New Mexico	
University of New Mexico Masters of Science Thesis	
Uribe, O.	1979
Water supply, in Albuquerque greater urban area water supply study	
U.S. Army Corps of Engineers	
Waldron, J.F.	1956
Reconnaissance geology and ground-water study of a part of Socorro County, New Mexico	
Stanford University Ph.D. dissertation	
Waltemeyer, S.D.	1994
Traveltime and reaeration characteristics for a reach of the Rio Grande, Albuquerque, New Mexico, October 1991	
U.S. Geological Survey Water-resources investigations report 94-4071	
Whitcomb, H.A.	1949
Water-supply investigation at Torreon, Sandoval County, New Mexico	
U.S. Geological Survey Open-File Report	
Wilkins, D.	1995
Description of geophysical-log data base for boreholes and wells in and adjacent to the Albuquerque Basin, New Mexico	
U.S. Geological Survey Open-File Report 95-360	
Wilkins, D.W., J.L. Schlottmann, and D.M. Ferree	1996
Chemical analysis of ground-water samples from the Rio Grande valley in the vicinity of Albuquerque, New Mexico, October 1993 through January 1994	
U.S. Geological Survey open-file report 95-773	
Wilkins, D.W.	1987
Characteristics and properties of the basin-fill aquifer determined from three test wells west of Albuquerque, Bernalillo County, New Mexico	
U.S. Geological Survey, Water Resources Investigation Report 86-4187	
William J. Miller Engineers, Inc.	1998
Upper Rio Grande water operations model: Summary of literature search of hydrologic investigations for development and review of conceptual model mainstream Rio Grande	
U.S. Army Engineer District, Albuquerque, contract no. DACW47-98-P-0026	
Willis, W.S.	1993
Middle Rio Grande ground-water studies	
U.S. Bureau of Reclamation, Middle Rio Grande Water Assessment, Technical Memorandum June 30 1993	
Wilson, B.C., and A.A. Lucero	1997
Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in New Mexico State Engineer Office Technical Report 49	

<p>Wilson, Lee Water supply in the Albuquerque Greater Urban Area (AGUA) 1975-2030 Consultant report to U.S. Corps of Engineers</p>	<p>1978</p>
<p>Wozniak, F.E. Irrigation in the Rio Grande valley, New Mexico--A study of the development of irrigation systems before 1945 Bureau of Reclamation contract BOR-87-1, New Mexico Historical Preservation Division, and Amarillo, Texas</p>	<p>1987</p>
<p>Wozniak, Frank E. Irrigation in the Rio Grande valley, New Mexico New Mexico Historic preservation division, Santa Fe, NM</p>	<p>1986</p>
<p>Wright, A.F. Bibliography of the geology and hydrology of the Albuquerque greater urban area, Bernalillo and parts of Sandoval, Santa Fe, Socorro, Torrance, and Valencia counties, New Mexico U.S. Geological Survey Bulletin 1458</p>	<p>1978</p>
<p>Zimmerman, D.A., and Updegraff, C.D. Analysis of impacts on the Rio Grande and the groundwater table from proposed deep well pumping: Rio Rancho's 12,000 acre-ft./year permit request Consultant report for The City of Rio Rancho Water and Wastewater Utilities Department, New Mexico; The New Mexico State Engineer Office (related well files numbers PG-6745 through RG-6745-S-34)</p>	<p>1996</p>

Middle Rio Grande Water Supply Study
Annotated Bibliography of Selected Documents

DRAFT
Middle Rio Grande Water Supply Study
Annotated Bibliography of Selected Documents

Reservoir Operations

- Blanchard, P.J. 1993
Ground-water-level fluctuations in the Cochiti Dam-Pena Blanca area, Sandoval County, New Mexico, 1976-1989
U.S. Geological Survey Water-Resources Investigation Report 92-4193
Twelve well pairs were installed to determine the vertical component of groundwater flow in the upper 150 feet of the saturated zone in the vicinity of Pena Blanca. Water levels, streamflow and reservoir levels are provided.
- Science Applications International Corporation 1998
Draft Work Plan for the Upper Rio Grande Basin Water Operations Review
U.S. Army Corps of Engineers, Albuquerque district, U.S. Bureau of Reclamation
Work plan to review and evaluate modifications to the Upper Rio Grande Basin river operations. URGWOM to be used as a tool to develop and evaluate alternative water storage and delivery operations, an EIS to be prepared to evaluate alternatives.
- Slate, J. 1998
U.S. Geological Survey Middle Rio Grande Basin study: Proceedings of the 2nd annual workshop, Albuquerque, New Mexico, February 10-11, 1998
U.S. Geological Survey Open-File Report 98-337
Compilation of papers covering a variety of geophysical, modeling, geologic and hydrologic topics related to the Middle Rio Grande Basin.
- Turney, P. 1991
Rio Grande depletion analysis: A presentation to the New Mexico section of the American Water Resources Association conference on Rio Grande basin hydrology
Interstate Stream Commission
Depletion analysis and review of changing trends in depletion for separate reaches of the Rio Grande Basin. Includes graphs of compact deliveries and reach-specific depletion trends.
- U.S. Army Corps of Engineers 1989
Reevaluation of the Rio Grande operating plan
U.S. Army Corps of Engineers, Albuquerque District
Study reviewing water management practices on Upper Rio Grande. This study includes legislative and legal history, description and resources of the basin, hydrology and meteorology, social and economic development, and biological and recreational resources
- U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1997
Upper Rio Grande Water Operations Model plan for development
U.S. Bureau of Reclamation, Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission
Plan to develop numerical model capable of simulating water storage and delivery operations in the Upper Rio Grande Basin
- U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1998
Conceptualization of the test case reach of the Upper Rio Grande Water Operations Model
U.S. Bureau of Reclamation, Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission
Description of the physical characteristics of rivers and reservoirs, accounting procedures and operational characteristics of the physical features of the Rio Chama, a tributary of the Rio Grande. Software review and recommendation.

Surface Water Evaluations

- Blanchard, P.J. 1993
Ground-water-level fluctuations in the Cochiti Dam-Pena Blanca area, Sandoval County, New Mexico, 1976-1989
U.S. Geological Survey Water-Resources Investigation Report 92-4193
Twelve well pairs were installed to determine the vertical component of groundwater flow in the upper 150 feet of the saturated zone in the vicinity of Pena Blanca. Water levels, streamflow and reservoir levels are provided.
- Bullard, T.F., and S.G. Wells 1992
Hydrology of the Middle Rio Grande from Velarde to Elephant Butte Reservoir
U.S. Fish and Wildlife Service Resource Publication 179
Summary of existing hydrologic information on the Middle Rio Grande Basin, for planning purposes. Includes history of development, surface hydrology, geomorphic response and groundwater.
- Crawford, C.S., A.C. Culley, R. Leutheuser, M.S. Sifuentes, L.H. White, and J.P. Plan 1993
Middle Rio Grande ecosystem: Bosque biological management plan
Middle Rio Grande Biological Interagency Team, Rio Grande Bosque Conservation Committee, U.S. Fish and Wildlife Service
A plan for management of the biological resources of the riparian ecosystem from Cochiti Dam to San Marcial. Includes site history, existing conditions, future outlook, and specific management recommendations.
- Goetz, C.L. and S.G. Shelton 1990
Infiltration and evapotranspiration within the Albuquerque, New Mexico area with a section on historical water-resources trends during the 1954-1980's period of urban growth
U.S. Geological Survey Water-Resources Investigations report 90-4055
Field investigations to measure localized infiltration and evapotranspiration at varied sites in the metropolitan area are described. Statistical analysis of trends in run-off, streamflow, groundwater pumpage and groundwater levels are summarized.
- Gould, J.L. 1994
Middle Rio Grande water assessment: Middle Rio Grande channel permeameter investigation
Middle Rio Grande Water Assessment, supporting document no. 11, U.S. Bureau of Reclamation, Albuquerque area office
Falling head and constant head permeameter tests were conducted in the channel of the Rio Grande at five locations. Average gain and loss rates are calculated from investigation data; investigation difficulties and uncertainty in results are discussed.
- Gould, J.L. 1995
Middle Rio Grande water assessment: Middle Rio Grande basin surface water budget for calendar years 1935, 1955, 1975, and 1993
Middle Rio Grande Water Assessment, supporting document no. 15, U.S. Bureau of Reclamation, Albuquerque area office
Data, analysis and discussion of surface water budgets for the Middle Rio Grande basin from Cochiti to San Acacia, for each of seven basin subunits, for the years 1935, 1955, 1975 and 1993.
- Gould, J.L., and S. Hansen 1994
Middle Rio Grande water assessment: Canal seepage field investigations performed
Middle Rio Grande Water Assessment, supporting document no. 12, U.S. Bureau of Reclamation, Albuquerque area office
Test ponds ranging in length from 530 to 1050 feet at 5 locations were constructed, filled and monitored; instantaneous and average seepage rates to the unsaturated subsurface were calculated using water level, rainfall and pan evaporation data for each pond.
- Hansen, S, and C. Gorbach 1997
Middle Rio Grande water assessment final report
Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office
Hydrogeology of Albuquerque Basin; Land use and water supply; Management of water resources including conjunctive use, aquifer recharge, legal considerations, recommendations

- Hansen, S. 1994
Middle Rio Grande water assessment: Detailed surface water budget for the Albuquerque reach for the Rio Grande during the 1993 & 1994 study period
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office; and the City of Albuquerque
 Results and discussion of stream flow monitoring program and water budget analysis conducted from late summer 1993 to winter 1994, to measure surface water system losses in the reach between Bernalillo and Isleta Pueblo.
- Hansen, S. 1994
Middle Rio Grande water assessment: Riparian corridor alluvium steady state ground water investigation concerning Rio Grande channel loss contributions to recharge, final draft
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office; and the City of Albuquerque
 Compilation and analysis of water level data from shallow alluvial wells in Rio Grande riparian corridor near Albuquerque. Hydrographs and profiles of weekly-monthly water level data from shallow wells along 5 cross-sections between Sandia and Rio Bravo. Related data in appendix includes logs and hydraulic conductivity estimates.
- McAda, D. 1996
Plan of study to quantify the hydrologic relations between the Rio Grande and the Santa Fe Group Aquifer System near Albuquerque, Central New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 96-4006
 Describes physical, hydraulic and flow characteristics of components of the Rio Grande/Santa Fe Group Aquifer system, data availability, data and interpretation needs, and a prioritized plan of study to improve understanding and quantify hydrologic relations between the river and the aquifer.
- New Mexico State Engineers Office 1959
Hydrologic summary: New Mexico streamflow and reservoir content 1888-1954
 State of New Mexico, State Engineer Office, Technical Report No. 7
 Tabulated flow data for gaging stations in the Rio Grande, Arkansas, and Colorado River drainages through 1954. Index of availability of discharge, reservoir content, sediment and chemical quality records by calendar year.
- New Mexico Water Resources Research Institute 1995
Proceedings of the 39th Annual New Mexico Water Conference: The water future of Albuquerque and the Middle Rio Grande Basin
 New Mexico Water Resources Research Institute report No. 290
 Papers on history of water development, ground and surface water management, geology and ecology related to water development, water quality, and water rights.
- Science Applications International Corporation 1998
Draft Work Plan for the Upper Rio Grande Basin Water Operations Review
 U.S. Army Corps of Engineers, Albuquerque district, U.S. Bureau of Reclamation
 Work plan to review and evaluate modifications to the Upper Rio Grande Basin river operations. URGWOM to be used as a tool to develop and evaluate alternative water storage and delivery operations, an EIS to be prepared to evaluate alternatives.
- Scurlock, Dan 1998
From the Rio to the Sierra: An environmental history of the Middle Rio Grande Basin
 USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO, General Technical Report RMRS-GTR-5
 Characterization of eco-systems, river, climatic, riparian and human activities in the Rio Grande Basin from 1540 to the present.
- Slate, J. 1998
U.S. Geological Survey Middle Rio Grande Basin study: Proceedings of the 2nd annual workshop, Albuquerque, New Mexico, February 10-11, 1998
 U.S. Geological Survey Open-File Report 98-337
 Compilation of papers covering a variety of geophysical, modeling, geologic and hydrologic topics related to the Middle Rio Grande Basin.

- Thorn, C.R. 1995
Surface-water discharge and evapotranspiration rates for grass and bare soil along a reach of the Rio Grande, Albuquerque, New Mexico, 1989-1995
 U.S. Geological Survey Open-File Report 95-419
 Floodplain cross-sections were established along Paseo del Norte and Rio Bravo Blvd across which surface water flow in drains, laterals, canals, and ditches is reported for every four to six weeks during the six year study period. Evapotranspiration rates calculated at six sites, using hemispheric chamber, are summarized. Sites include grass and bare soil areas.
- Turney, P. 1991
Rio Grande depletion analysis: A presentation to the New Mexico section of the American Water Resources Association conference on Rio Grande basin hydrology
 Interstate Stream Commission
 Depletion analysis and review of changing trends in depletion for separate reaches of the Rio Grande Basin. Includes graphs of compact deliveries and reach-specific depletion trends.
- U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Surface water quality report
 Middle Rio Grande Water Assessment, supporting document no. 2, U.S. Bureau of Reclamation, Albuquerque area office
 Compilation and analysis of water quality parameters in Rio Grande at San Felipe, with comparison to water quality at Albuquerque and Isleta. Review of trends, spatial differences and variability. Concludes that Rio Grande water is calcium-bicarbonate dominant, is of suitable quality for recharge to aquifer and is suitable for drinking water with conventional treatment.
- U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Analysis of soils textures and permeabilities; Deep Percolation for Kentucky bluegrass
 Middle Rio Grande Water Assessment, supporting document no. 7, U.S. Bureau of Reclamation, Albuquerque area office
 a) Analysis of soil texture and permeability, including supporting memoranda. Tabulations of soil series and associated soil texture, permeabilities, moisture holding capacity, crop-specific deep percolation %s, accretion rates.
 b) Evaluation of deep percolation for Kentucky bluegrass; acreages at historic points in time, percolation rates for subunits in Albuquerque area.
- U.S. Bureau of Reclamation 1994
Middle Rio Grande channel permeameter investigations technical memorandum, draft report
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office, New Mexico Interstate Stream Commission
 Investigation to measure conductivity of river bed materials and in-situ losses through river bed sediments, using permeameters at five locations in the Albuquerque area. Interpretation Data includes permeameter results, soil gradation tables. Photos. Data used to estimate river gains/losses. Gains more prevalent, from this data. Discussion of uncertainty and validity of results.
- U.S. Bureau of Reclamation 1995
Middle Rio Grande water assessment: Flood wave test and transient groundwater analysis, technical memorandum
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, U.S. Geological Survey, Bureau of Indian Affairs
 A flood wave test was conducted to collect transient groundwater response from several cross sections of piezometers, to provide insight into the hydraulic connection between the river and the shallow groundwater system (spring 1994). Data includes numerous figures and tables on well field data, and model summaries.
- U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1997
Upper Rio Grande Water Operations Model plan for development
 U.S. Bureau of Reclamation, Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission
 Plan to develop numerical model capable of simulating water storage and delivery operations in the Upper Rio Grande Basin

- U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1998
Conceptualization of the test case reach of the Upper Rio Grande Water Operations Model
 U.S. Bureau of Reclamation, Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission
 Description of the physical characteristics of rivers and reservoirs, accounting procedures and operational characteristics of the physical features of the Rio Chama, a tributary of the Rio Grande. Software review and recommendation.
- Hydrogeology
- Anderholm, S.K. 1987
Reconnaissance of hydrology, land use, ground-water chemistry, and effects of land use on ground-water chemistry in the Albuquerque-Belen Basin, Albuquerque, New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 86-4174
 USGS reconnaissance study in the Albuquerque-Belen basin area, as part of the USGS's Toxic Waste-Ground-water Contamination Program. Land use map; mapped chemical analyses. Discussion of ground-water chemistry and susceptibility of groundwater to contamination.
- Anderholm, S.K. 1988
Ground-water geochemistry of the Albuquerque-Belen basin, central New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 86-4094
 Identification of areal distribution of groundwater quality, relation of water quality to the groundwater flow system and processes resulting in differences. Water quality tabulation and maps.
- Anderholm, S.K. and T.F. Bullard 1987
Description of piezometer nests and water levels in the Rio Grande valley near Albuquerque, Bernalillo County, New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 87-122
 Lithologic and geophysical logs and water-level data are provided for twenty four piezometers installed in the Rio Grande valley near Albuquerque. The piezometers were installed along two sections (Montano Road and Rio Bravo Blvd.) with four piezometers per section and three piezometers per nest.
- Bjorklund, L. J., and B. W. Maxwell 1961
Availability of groundwater in the Albuquerque Area, Bernalillo and Sandoval Counties, New Mexico
 New Mexico State Engineer Technical Report No. 21
 Hydrogeology of Albuquerque area including geology, groundwater occurrence, groundwater depths and flow patterns, groundwater chemistry, groundwater recharge and discharge mechanisms, and locations of area wells. Results from aquifer tests.
- Blanchard, P.J. 1993
Ground-water-level fluctuations in the Cochiti Dam-Pena Blanca area, Sandoval County, New Mexico, 1976-1989
 U.S. Geological Survey Water-Resources Investigation Report 92-4193
 Twelve well pairs were installed to determine the vertical component of groundwater flow in the upper 150 feet of the saturated zone in the vicinity of Pena Blanca. Water levels, streamflow and reservoir levels are provided.
- Haneberg, W.C., and Hawley, J.W. (eds.) 1996
Characterization of hydrogeologic units in the northern Albuquerque basin
 New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-C
 Collection of papers: Hydrostratigraphic, lithofacies and structural characteristics between Bernalillo and Isleta (Hawley); Faults as hydrogeologic units (Haneberg); Cementation along Sand Hill fault (Mozley, Goodwin); Compaction curves and specific storage (Haneberg); Calcite cementation (Mozley, Beckner); Petrology and diagenesis (Gillentine).
- Hansen, S, and C. Gorbach 1997
Middle Rio Grande water assessment final report
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office
 Hydrogeology of Albuquerque Basin; Land use and water supply; Management of water resources including conjunctive use, aquifer recharge, legal considerations, recommendations

- Hansen, S. 1994
Middle Rio Grande water assessment: Riparian corridor alluvium steady state ground water investigation concerning Rio Grande channel loss contributions to recharge, final draft
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office; and the City of Albuquerque
 Compilation and analysis of water level data from shallow alluvial wells in Rio Grande riparian corridor near Albuquerque. Hydrographs and profiles of weekly-monthly water level data from shallow wells along 5 cross-sections between Sandia and Rio Bravo. Related data in appendix includes logs and hydraulic conductivity estimates.
- Hawley, J.W. and C.S. Haase 1992
Hydrogeologic framework of the northern Albuquerque Basin.
 New Mexico Bureau of Mines and Mineral Resources open-file report 387
 Geologic, hydrologic and geophysical data combined into conceptual hydrogeologic model of the Northern Albuquerque Basin in the Bernalillo County area.
- Hawley, J.W., and T.M. Whitworth 1996
Hydrogeology of potential recharge areas for the basin and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico
 New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D (2 volumes)
 Discussion of hydrogeologic basis for identification of recharge areas (Hawley); relationships among permeability, porosity, grain-size, in hydrostratigraphic units at recharge sites (Detmer); comparison of geophysical logs and vertical permeability at PSMW 19 and Coronado 2 wells (Haneberg); and hydrogeochemical modeling of proposed artificial recharge (Whitworth).
- Kernodle, J., R. Miller & W. Scott 1987
Three-dimensional model simulation of transient ground-water flow in the Albuquerque-Belen Basin, New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 86-4194
 Results of computer simulations of groundwater flow under transient conditions, 1907 to 1979, in the Albuquerque-Belen Basin and the analysis of the sensitivity of the model to minor changes in values of simulated aquifer properties.
- McAda, D. 1996
Plan of study to quantify the hydrologic relations between the Rio Grande and the Santa Fe Group Aquifer System near Albuquerque, Central New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 96-4006
 Describes physical, hydraulic and flow characteristics of components of the Rio Grande/Santa Fe Group Aquifer system, data availability, data and interpretation needs, and a prioritized plan of study to improve understanding and quantify hydrologic relations between the river and the aquifer.
- Reeder, H.O., L.J. Bjorklund, and G.A. Dinwiddie 1967
Quantitative analysis of water resources in the Albuquerque area, New Mexico
 New Mexico State Engineer Technical Report No. 33
 Analysis of Albuquerque basin water resources and projections on future availability based upon historic hydrologic data and expected population growth.
- Sandia National Laboratories 1997
Evaluation of groundwater flow and hydrogeologic conceptual model, Kirkland air force base, Albuquerque, New Mexico: Environmental Restoration Project
 U.S. Department of Energy, Albuquerque operations office
 A model of the Kirtland Air force Base was developed using the Kernodle (95) model as a starting point. Additional geologic characterization developed by Sandia National Laboratories was incorporated into the model; a transient calibration was conducted using wells in this area. Model results and sensitivity analyses are discussed.

- Slate, J. 1998
U.S. Geological Survey Middle Rio Grande Basin study: Proceedings of the 2nd annual workshop, Albuquerque, New Mexico, February 10-11, 1998
 U.S. Geological Survey Open-File Report 98-337
 Compilation of papers covering a variety of geophysical, modeling, geologic and hydrologic topics related to the Middle Rio Grande Basin.
- Thorn, C., D. McAda, & J. Kernodle 1993
Geohydrologic framework and hydrologic conditions in the Albuquerque Basin, Central New
 U.S. Geological Survey Water-Resources Investigation Report 93-4149
 Description of geohydrologic framework and conditions in the Albuquerque Basin, including climate, land use and cover, tectonics, hydrostratigraphy, hydrologic properties, water budget and surface-ground water interaction. Summary table of aquifer test data.
- U.S. Bureau of Reclamation 1992
Middle Rio Grande water assessment: Ground water quality report
 Middle Rio Grande Water Assessment, supporting document no. 1, U.S. Bureau of Reclamation, Albuquerque area office
 Overview of groundwater quality conditions. Summary tabulations and figures.
- U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Analysis of soils textures and permeabilities; Deep Percolation for Kentucky bluegrass
 Middle Rio Grande Water Assessment, supporting document no. 7, U.S. Bureau of Reclamation, Albuquerque area office
 a) Analysis of soil texture and permeability, including supporting memoranda. Tabulations of soil series and associated soil texture, permeabilities, moisture holding capacity, crop-specific deep percolation %s, accretion rates.
 b) Evaluation of deep percolation for Kentucky bluegrass; acreages at historic points in time, percolation rates for subunits in Albuquerque area.
- U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Drilling, logging, monitoring well installation; hydraulic conductivity tests; and infiltration gallery feasibility evaluation technical memoranda
 Middle Rio Grande Water Assessment, supporting document no. 8, U.S. Bureau of Reclamation, Albuquerque area office
 5/7/93 memorandum transmitting well logs for 16 wells along 5 transects in Albuquerque area, drilled in April 1993 for shallow alluvial investigations; hydraulic conductivity test procedures and results at six wells; 2/9/95 memorandum Busch to Hanson re. infiltration gallery installation alternatives.
- Wilkins, D. 1995
Description of geophysical-log data base for boreholes and wells in and adjacent to the Albuquerque Basin, New Mexico
 U.S. Geological Survey Open-File Report 95-360
 Description of data base and log type. Summary table listing geophysical data available at specific locations.
- Wilkins, D.W. 1987
Characteristics and properties of the basin-fill aquifer determined from three test wells west of Albuquerque, Bernalillo County, New Mexico
 U.S. Geological Survey, Water Resources Investigation Report 86-4187
 Three deep test holes were drilled and tested west of Albuquerque; included are detailed geologic and geophysical logs; water quality analyses and aquifer test results.

Engineering

- Hansen, S, and C. Gorbach 1997
Middle Rio Grande water assessment final report
Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office
Hydrogeology of Albuquerque Basin; Land use and water supply; Management of water resources including conjunctive use, aquifer recharge, legal considerations, recommendations
- Science Applications International Corporation 1998
Draft Work Plan for the Upper Rio Grande Basin Water Operations Review
U.S. Army Corps of Engineers, Albuquerque district, U.S. Bureau of Reclamation
Work plan to review and evaluate modifications to the Upper Rio Grande Basin river operations. URGWOM to be used as a tool to develop and evaluate alternative water storage and delivery operations, an EIS to be prepared to evaluate alternatives.
- U.S. Army Corps of Engineers 1989
Reevaluation of the Rio Grande operating plan
U.S. Army Corps of Engineers, Albuquerque District
Study reviewing water management practices on Upper Rio Grande. This study includes legislative and legal history, description and resources of the basin, hydrology and meteorology, social and economic development, and biological and recreational resources

Modeling

- Barroll, P. 1999
Draft documentation of the Administrative Groundwater Model for the Middle Rio Grande
New Mexico Office of the State Engineer
Report summarizes previous modeling work by Tiedeman and documents the Office of the State Engineer's (OSE) modifications to Tiedeman model versions.
- Hawley, J.W., and T.M. Whitworth 1996
Hydrogeology of potential recharge areas for the basin and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico
New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D (2 volumes)
Discussion of hydrogeologic basis for identification of recharge areas (Hawley); relationships among permeability, porosity, grain-size, in hydrostratigraphic units at recharge sites (Detmer); comparison of geophysical logs and vertical permeability at PSMW 19 and Coronado 2 wells (Haneberg); and hydrogeochemical modeling of proposed artificial recharge (Whitworth).
- Kernodle, J., R. Miller & W. Scott 1987
Three-dimensional model simulation of transient ground-water flow in the Albuquerque-Belen Basin, New Mexico
U.S. Geological Survey Water-Resources Investigation Report 86-4194
Results of computer simulations of groundwater flow under transient conditions, 1907 to 1979, in the Albuquerque-Belen Basin and the analysis of the sensitivity of the model to minor changes in values of simulated aquifer properties.
- Kernodle, J.M., D.P. McAda, and C.R. Thorn 1995
Simulation of ground-water flow in the Albuquerque Basin, central New Mexico, 1901-1994, with projections to 2020
U.S. Geological Survey Water-Resources Investigations Report 94-4251, and The City of Albuquerque Publics Work Department
Discussion the development of a 3-dimensional groundwater flow model of the Albuquerque Basin. The model is used to simulate groundwater withdrawals from 1901 to 1994 and projected impacts of possible future conditions to the year 2020. Simulated water budgets and head conditions are provided.

- Kernodle, J.W. 1998
Simulation of ground-water flow in the Albuquerque basin, Central New Mexico, 1901-1995, with projection to 2020
 U.S. Geological Survey Open-File Report 96-209
 Supplement to USGS WRRRI 94-4251 incorporating additional geologic information and one additional year of groundwater data.
- Sandia National Laboratories 1997
Evaluation of groundwater flow and hydrogeologic conceptual model, Kirkland air force base, Albuquerque, New Mexico: Environmental Restoration Project
 U.S. Department of Energy, Albuquerque operations office
 A model of the Kirtland Air force Base was developed using the Kernodle (95) model as a starting point. Additional geologic characterization developed by Sandia National Laboratories was incorporated into the model; a transient calibration was conducted using wells in this area. Model results and sensitivity analyses are discussed.
- Shomaker, J.W., Finch, S.T. Jr., and Pearson, J.W. 1994
Effects of pumping water-supply wells, Intel Corporation, Sandoval county, New Mexico
 Consultant report for Intel Corporation, New Mexico State Engineer Office (related well file numbers RG-57125 through RG-57125-S-2)
 Using the Albuquerque Basin model (Kernodle and others, 87) as a starting point, modifications were made with the objective of improve model representation of hydrogeology and resolution in the Rio Rancho-Corrales vicinity, for the purpose of evaluating impacts of proposed pumping by Intel Corporation. Includes water level and pumpage data used in calibration, summary of aquifer tests.
- Slate, J. 1998
U.S. Geological Survey Middle Rio Grande Basin study: Proceedings of the 2nd annual workshop, Albuquerque, New Mexico, February 10-11, 1998
 U.S. Geological Survey Open-File Report 98-337
 Compilation of papers covering a variety of geophysical, modeling, geologic and hydrologic topics related to the Middle Rio Grande Basin.
- Tiedeman, C., J.W. Kernodle, and D. McAda 1998
Application of nonlinear-regression methods to a ground-water flow model of the Albuquerque Basin, New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 98-4172
 Nonlinear regression procedures were used (MODFLOWP) to calibrate and evaluate six conceptual models representing alternate subsurface configurations for the Albuquerque Basin, using a coarser-grid version of the model described in Kernodle, 1998. Alternate configurations of simulated thickness, unit permeability and fault zone conductivity were evaluated.
- U.S. Bureau of Reclamation 1995
Middle Rio Grande water assessment: Flood wave test and transient groundwater analysis, technical memorandum
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, U.S. Geological Survey, Bureau of Indian Affairs
 A flood wave test was conducted to collect transient groundwater response from several cross sections of piezometers, to provide insight into the hydraulic connection between the river and the shallow groundwater system (spring 1994). Data includes numerous figures and tables on well field data, and model summaries.
- U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1997
Upper Rio Grande Water Operations Model plan for development
 U.S. Bureau of Reclamation, Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission
 Plan to develop numerical model capable of simulating water storage and delivery operations in the Upper Rio Grande Basin

- U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1998
Upper Rio Grande Water Operations Model draft description of rules for the Rio Chama Full-Forecast Model
 U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission
 Description of rules for the Rio Chama full-forecast computer model
- U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, U.S. Geological Survey, et al. 1998
Conceptualization of the test case reach of the Upper Rio Grande Water Operations Model
 U.S. Bureau of Reclamation, Corps of Engineers, U.S. Geological Survey, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, International Boundary and Water Commission
 Description of the physical characteristics of rivers and reservoirs, accounting procedures and operational characteristics of the physical features of the Rio Chama, a tributary of the Rio Grande. Software review and recommendation.
- Zimmerman, D.A., and Updegraff, C.D. 1996
Analysis of impacts on the Rio Grande and the groundwater table from proposed deep well pumping: Rio Rancho's 12,000 acre-ft./year permit request
 Consultant report for The City of Rio Rancho Water and Wastewater Utilities Department, New Mexico; The New Mexico State Engineer Office (related well files numbers PG-6745 through RG-6745-S-34)
 Discussion of groundwater model constructed for the purpose of evaluating Rio Rancho's proposed withdrawal an additional 12,000 acre-ft/year of groundwater for municipal use. Calculation of drawdown at nearby wells and river depletion. Includes table of completion details for Rio Rancho wells.
- Water Resource Planning*
- Bell, A.D., K.R. Blaney, K.J. Oliver, and R.E. Miller 1994
Middle Rio Grande water assessment: Middle Rio Grande land use trend analysis geographic information system data base
 Middle Rio Grande Water Assessment, supporting document no. 13, U.S. Bureau of Reclamation, Albuquerque area office
 Land use trend analysis for 1935, 1954/55, 1970's and 1992/93, conducted to identify uses related to groundwater resources, including riparian vegetation, agricultural and urban lands. Description of the GIS database constructed for each time period.
- Bullard, T.F., and S.G. Wells 1992
Hydrology of the Middle Rio Grande from Velarde to Elephant Butte Reservoir
 U.S. Fish and Wildlife Service Resource Publication 179
 Summary of existing hydrologic information on the Middle Rio Grande Basin, for planning purposes. Includes history of development, surface hydrology, geomorphic response and groundwater.
- Crawford, C.S., A.C. Culley, R. Leutheuser, M.S. Sifuentes, L.H. White, and J.P. Plan 1993
Middle Rio Grande ecosystem: Bosque biological management plan
 Middle Rio Grande Biological Interagency Team, Rio Grande Bosque Conservation Committee, U.S. Fish and Wildlife Service
 A plan for management of the biological resources of the riparian ecosystem from Cochiti Dam to San Marcial. Includes site history, existing conditions, future outlook, and specific management recommendations.
- Duisberg, P. C. 1955
Problems of the Upper Rio Grande: An Arid Zone River. Special symposium and discussion group of the International Arid Lands Symposium and Conference.
 U.S. Commission for Arid Resource Improvement and Development. Publication No. 1
 Compilation of papers discussing water supply predictions, conditions on irrigated lands along the Rio Grande, municipal water requirements, and salinity problems.
- Hansen, S, and C. Gorbach 1997
Middle Rio Grande water assessment final report
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office
 Hydrogeology of Albuquerque Basin; Land use and water supply; Management of water resources including conjunctive use, aquifer recharge, legal considerations, recommendations

- Hernandez, J.W. 1996
Middle Rio Grande water assessment: Report on the legal and institutional considerations associated with alternative management strategies for the sustainable conjunctive-use of the surface and ground-water resources of the Middle Rio Grande Basin in NM
 Middle Rio Grande Water Assessment, supporting document no. 21, U.S. Bureau of Reclamation, Albuquerque area office
 Discussion of water policy constraints and opportunities related to Middle Rio Grande water supply; report on Policy Analysis Conference, April 1, 1996; alternatives for development of sustainable supply.
- Interstate Stream Commission 1994
Regional Water Planning Handbook
 New Mexico Interstate Stream Commission
 This handbook provides guidelines and a template for regional water planning; including identification of water supply, the future water demand, and development of a strategy for meeting demand with the supply.
- Kelton, A. 1998
A comprehensive history of Middle Rio Grande water supplies and assessment
 Alliance for Rio Grande Heritage
 Discussion of Middle Rio Grande water budgets with effort to reconcile different approaches to handling water budget components; discussion of potential impacts of "bias" in water budget accounting in policy arena.
- Levings, G.W., D.F. Healy, S.F. Richey, and L.F. Carter 1998
Water quality in the Rio Grande valley, Colorado, New Mexico, and Texas, 1992-1995
 U.S. Geological Survey circular 1162
 Summary of major findings from the USGS water quality assessment of the Rio Grande valley study between 1992 and 1995, and how these findings relate to regional and national findings/concerns. Discussion of environmental setting, hydrologic conditions, organics, nutrients, radon, trace elements, fish communities and stream habitat.
- Middle Rio Grande Council of Governments 1997
Regional water planning for the Middle Rio Grande Region
 Proposal to the New Mexico interstate Stream Commission
 Proposal submitted by the Middle Rio Grande Council of Governments (MRGCOG) to New Mexico Interstate Stream Commission for funding to conduct regional water planning. Process scope includes Public Involvement and Water Availability/Demand Modeling
- New Mexico Water Resources Research Institute 1987
Proceedings of the 31st Annual New Mexico Water Conference: Managing the river
 New Mexico Water Resources Research Institute Report No 219
 Conference proceedings: Water management and operations; perspectives of City of Albuquerque, MRGCD, recreation, fish and wildlife; related hydrogeology; federal reserved rights.
- New Mexico Water Resources Research Institute 1988
Proceedings of the 32nd Annual New Mexico Water Conference: Ground water management
 New Mexico Water Resources Research Institute Report No. 229
 Conference focused on management of groundwater resources. Papers cover groundwater quality protection programs, recharge projects, groundwater quality and protection in Albuquerque, and Albuquerque's water resources management plan.
- New Mexico Water Resources Research Institute 1995
Proceedings of the 39th Annual New Mexico Water Conference: The water future of Albuquerque and the Middle Rio Grande Basin
 New Mexico Water Resources Research Institute report No. 290
 Papers on history of water development, ground and surface water management, geology and ecology related to water development, water quality, and water rights.

- Reeder, H.O., L.J. Bjorklund, and G.A. Dinwiddie 1967
Quantitative analysis of water resources in the Albuquerque area, New Mexico
 New Mexico State Engineer Technical Report No. 33
 Analysis of Albuquerque basin water resources and projections on future availability based upon historic hydrologic data and expected population growth.
- Science Applications International Corporation 1998
Draft Work Plan for the Upper Rio Grande Basin Water Operations Review
 U.S. Army Corps of Engineers, Albuquerque district, U.S. Bureau of Reclamation
 Work plan to review and evaluate modifications to the Upper Rio Grande Basin river operations. URGWOM to be used as a tool to develop and evaluate alternative water storage and delivery operations, an EIS to be prepared to evaluate alternatives.
- Scurlock, Dan 1998
From the Rio to the Sierra: An environmental history of the Middle Rio Grande Basin
 USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO, General Technical Report RMRS-GTR-5
 Characterization of eco-systems, river, climatic, riparian and human activities in the Rio Grande Basin from 1540 to the present.
- Sheehan, Sheehan and Stelzner, P.A. 1993
Middle Rio Grande Conservancy District water policies plan
 Middle Rio Grande Conservancy District
 Conservancy District policy plan describes the legal, economic and land-use environment, and makes policy recommendations for consideration by the district board. Discussion of institutional history, services, water rights, value of water assets and possible future roles.
- Shupe, S.J., and J. Folk-Williams 1988
The upper Rio Grande: A guide to decision-making
 Western Network
 Explanation of key water resource management institutions, history and current water issues, process of decision-making and pressures on current system for change.
- Turney, P. 1991
Rio Grande depletion analysis: A presentation to the New Mexico section of the American Water Resources Association conference on Rio Grande basin hydrology
 Interstate Stream Commission
 Depletion analysis and review of changing trends in depletion for separate reaches of the Rio Grande Basin. Includes graphs of compact deliveries and reach-specific depletion trends.
- U.S. Army Corps of Engineers 1983
Plan of study, Rio Grande and tributaries, water conservation/management
 U.S. Army Corps of Engineers, Albuquerque district
 Discussion of water use and management concerns; identifies areas in need of additional study, including quantification of consumptive use, changes in water use patterns and future water needs, and identification of alternative water management procedures.
- U.S. Army Corps of Engineers 1989
Reevaluation of the Rio Grande operating plan
 U.S. Army Corps of Engineers, Albuquerque District
 Study reviewing water management practices on Upper Rio Grande. This study includes legislative and legal history, description and resources of the basin, hydrology and meteorology, social and economic development, and biological and recreational resources

- William J. Miller Engineers, Inc. 1998
Upper Rio Grande water operations model: Summary of literature search of hydrologic investigations for development and review of conceptual model mainstream Rio Grande
 U.S. Army Engineer District, Albuquerque, contract no. DACW47-98-P-0026
 Bibliography prepared for URGWOP of reports related to surface water supply and use, sediment and river channel morphology, groundwater hydrology, groundwater quality, conjunctive use and planning reports for federal projects.
- Water Budgets
- Action Committee of Middle Rio Grande Water Assembly 1999
Middle Rio Grande water budget (where it comes from, & goes, & how much)
 Action Committee of Middle Rio Grande Water Assembly
 This water budget was prepared for the non-hydrologist & stakeholders, to facilitate understanding of the region's water resources. Surface and groundwater aspects of the hydrologic system are described, using tables and figures.
- Blanchard, P.J. 1993
Ground-water-level fluctuations in the Cochiti Dam-Pena Blanca area, Sandoval County, New Mexico, 1976-1989
 U.S. Geological Survey Water-Resources Investigation Report 92-4193
 Twelve well pairs were installed to determine the vertical component of groundwater flow in the upper 150 feet of the saturated zone in the vicinity of Pena Blanca. Water levels, streamflow and reservoir levels are provided.
- Goetz, C.L. and S.G. Shelton 1990
Infiltration and evapotranspiration within the Albuquerque, New Mexico area with a section on historical water-resources trends during the 1954-1980's period of urban growth
 U.S. Geological Survey Water-Resources Investigations report 90-4055
 Field investigations to measure localized infiltration and evapotranspiration at varied sites in the metropolitan area are described. Statistical analysis of trends in run-off, streamflow, groundwater pumpage and groundwater levels are summarized.
- Gould, J.L. 1995
Middle Rio Grande water assessment: Middle Rio Grande basin surface water budget for calendar years 1935, 1955, 1975, and 1993
 Middle Rio Grande Water Assessment, supporting document no. 15, U.S. Bureau of Reclamation, Albuquerque area office
 Data, analysis and discussion of surface water budgets for the Middle Rio Grande basin from Cochiti to San Acacia, for each of seven basin subunits, for the years 1935, 1955, 1975 and 1993.
- Gould, J.L., and S. Hansen 1994
Middle Rio Grande water assessment: Canal seepage field investigations performed
 Middle Rio Grande Water Assessment, supporting document no. 12, U.S. Bureau of Reclamation, Albuquerque area office
 Test ponds ranging in length from 530 to 1050 feet at 5 locations were constructed, filled and monitored; instantaneous and average seepage rates to the unsaturated subsurface were calculated using water level, rainfall and pan evaporation data for each pond.
- Hansen, S. 1994
Middle Rio Grande water assessment: Detailed surface water budget for the Albuquerque reach for the Rio Grande during the 1993 & 1994 study period
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office; and the City of Albuquerque
 Results and discussion of stream flow monitoring program and water budget analysis conducted from late summer 1993 to winter 1994, to measure surface water system losses in the reach between Bernalillo and Isleta Pueblo.

- Kelton, A. 1998
A comprehensive history of Middle Rio Grande water supplies and assessment
Alliance for Rio Grande Heritage
Discussion of Middle Rio Grande water budgets with effort to reconcile different approaches to handling water budget components; discussion of potential impacts of "bias" in water budget accounting in policy arena.
- Kernodle, J., R. Miller & W. Scott 1987
Three-dimensional model simulation of transient ground-water flow in the Albuquerque-Belen Basin, New Mexico
U.S. Geological Survey Water-Resources Investigation Report 86-4194
Results of computer simulations of groundwater flow under transient conditions, 1907 to 1979, in the Albuquerque-Belen Basin and the analysis of the sensitivity of the model to minor changes in values of simulated aquifer properties.
- Kernodle, J.M., D.P. McAda, and C.R. Thorn 1995
Simulation of ground-water flow in the Albuquerque Basin, central New Mexico, 1901-1994, with projections to 2020
U.S. Geological Survey Water-Resources Investigations Report 94-4251, and The City of Albuquerque Publics Work Department
Discussion the development of a 3-dimensional groundwater flow model of the Albuquerque Basin. The model is used to simulate groundwater withdrawals from 1901 to 1994 and projected impacts of possible future conditions to the year 2020. Simulated water budgets and head conditions are provided.
- Kernodle, J.W. 1998
Simulation of ground-water flow in the Albuquerque basin, Central New Mexico, 1901-1995, with projection to 2020
U.S. Geological Survey Open-File Report 96-209
Supplement to USGS WRRRI 94-4251 incorporating additional geologic information and one additional year of groundwater data.
- McAda, D. 1996
Plan of study to quantify the hydrologic relations between the Rio Grande and the Santa Fe Group Aquifer System near Albuquerque, Central New Mexico
U.S. Geological Survey Water-Resources Investigation Report 96-4006
Describes physical, hydraulic and flow characteristics of components of the Rio Grande/Santa Fe Group Aquifer system, data availability, data and interpretation needs, and a prioritized plan of study to improve understanding and quantify hydrologic relations between the river and the aquifer.
- New Mexico Water Resources Research Institute 1995
Proceedings of the 39th Annual New Mexico Water Conference: The water future of Albuquerque and the Middle Rio Grande Basin
New Mexico Water Resources Research Institute report No. 290
Papers on history of water development, ground and surface water management, geology and ecology related to water development, water quality, and water rights.
- Slate, J. 1998
U.S. Geological Survey Middle Rio Grande Basin study: Proceedings of the 2nd annual workshop, Albuquerque, New Mexico, February 10-11, 1998
U.S. Geological Survey Open-File Report 98-337
Compilation of papers covering a variety of geophysical, modeling, geologic and hydrologic topics related to the Middle Rio Grande Basin.

- Summers, W.K. 1995
Land use trends and their effect on water use and the hydrologic budget in the Albuquerque Basin, New Mexico
 Middle Rio Grande Water Assessment, supporting document no. 14 U.S. Bureau of Reclamation, Albuquerque area office
 Describes land use and water use during the years 1935, 1955, 1975, & 1993. Evaluates trends and effects on hydrologic budget.
- Thorn, C., D. McAda, & J. Kernodle 1993
Geohydrologic framework and hydrologic conditions in the Albuquerque Basin, Central New
 U.S. Geological Survey Water-Resources Investigation Report 93-4149
 Description of geohydrologic framework and conditions in the Albuquerque Basin, including climate, land use and cover, tectonics, hydrostratigraphy, hydrologic properties, water budget and surface-ground water interaction. Summary table of aquifer test data.
- Turney, P. 1991
Rio Grande depletion analysis: A presentation to the New Mexico section of the American Water Resources Association conference on Rio Grande basin hydrology
 Interstate Stream Commission
 Depletion analysis and review of changing trends in depletion for separate reaches of the Rio Grande Basin. Includes graphs of compact deliveries and reach-specific depletion trends.
- Wilson, B.C., and A.A. Lucero 1997
Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in
 New Mexico State Engineer Office Technical Report 49
 Water withdrawals and depletions in New Mexico counties and river basins in 1995 are tabulated for nine water use categories, methods for estimation of depletions are described.
- Water Use: Municipal*
- Anderholm, S.K. 1987
Reconnaissance of hydrology, land use, ground-water chemistry, and effects of land use on ground-water chemistry in the Albuquerque-Belen Basin, Albuquerque, New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 86-4174
 USGS reconnaissance study in the Albuquerque-Belen basin area, as part of the USGS's Toxic Waste-Ground-water Contamination Program. Land use map; mapped chemical analyses. Discussion of ground-water chemistry and susceptibility of groundwater to contamination.
- Bell, A.D., K.R. Blaney, K.J. Oliver, and R.E. Miller 1994
Middle Rio Grande water assessment: Middle Rio Grande land use trend analysis geographic information system data base
 Middle Rio Grande Water Assessment, supporting document no. 13, U.S. Bureau of Reclamation, Albuquerque area office
 Land use trend analysis for 1935, 1954/55, 1970's and 1992/93, conducted to identify uses related to groundwater resources, including riparian vegetation, agricultural and urban lands. Description of the GIS database constructed for each time period.
- Duisberg, P. C. 1955
Problems of the Upper Rio Grande: An Arid Zone River. Special symposium and discussion group of the International Arid Lands Symposium and Conference.
 U.S. Commission for Arid Resource Improvement and Development. Publication No. 1
 Compilation of papers discussing water supply predictions, conditions on irrigated lands along the Rio Grande, municipal water requirements, and salinity problems.

- Lansford, R.R., E.T. Garnett, and B.J. Creel 1973
An analytical interdisciplinary evaluation of the utilization of the water resources of the Rio Grande in New Mexico--Middle Rio Grande
 New Mexico Water Resources Research Institute Report 22
 Overview of water management practices, hydrology, hydrogeology, and description of Middle Rio Grande basin. Impacts of various water resource scenarios on various socioeconomic models are evaluated.
- New Mexico Water Resources Research Institute 1987
Proceedings of the 31st Annual New Mexico Water Conference: Managing the river
 New Mexico Water Resources Research Institute Report No 219
 Conference proceedings: Water management and operations; perspectives of City of Albuquerque, MRGCD, recreation, fish and wildlife; related hydrogeology; federal reserved rights.
- New Mexico Water Resources Research Institute 1995
Proceedings of the 39th Annual New Mexico Water Conference: The water future of Albuquerque and the Middle Rio Grande Basin
 New Mexico Water Resources Research Institute report No. 290
 Papers on history of water development, ground and surface water management, geology and ecology related to water development, water quality, and water rights.
- Summers, W.K. 1995
Land use trends and their effect on water use and the hydrologic budget in the Albuquerque Basin, New Mexico
 Middle Rio Grande Water Assessment, supporting document no. 14 U.S. Bureau of Reclamation, Albuquerque area office
 Describes land use and water use during the years 1935, 1955, 1975, & 1993. Evaluates trends and effects on hydrologic budget.
- Thorn, C., D. McAda, & J. Kernodle 1993
Geohydrologic framework and hydrologic conditions in the Albuquerque Basin, Central New
 U.S. Geological Survey Water-Resources Investigation Report 93-4149
 Description of geohydrologic framework and conditions in the Albuquerque Basin, including climate, land use and cover, tectonics, hydrostratigraphy, hydrologic properties, water budget and surface-ground water interaction. Summary table of aquifer test data.
- U.S. Bureau of Reclamation 1994
Middle Rio Grande water assessment: Non-agricultural water use
 Middle Rio Grande Water Assessment, supporting document no. 3, U.S. Bureau of Reclamation, Albuquerque area office, and the City of Albuquerque
 Non-agricultural water use data compiled by the USGS is compared to the NMSEO inventory of water uses. Summary tables by category indicate consistency between these sources. Appendix includes tables identifying M&I wells.
- Wilson, B.C., and A.A. Lucero 1997
Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in
 New Mexico State Engineer Office Technical Report 49
 Water withdrawals and depletions in New Mexico counties and river basins in 1995 are tabulated for nine water use categories, methods for estimation of depletions are described.
- Water Use: Agricultural*
- Anderholm, S.K. 1987
Reconnaissance of hydrology, land use, ground-water chemistry, and effects of land use on ground-water chemistry in the Albuquerque-Belen Basin, Albuquerque, New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 86-4174
 USGS reconnaissance study in the Albuquerque-Belen basin area, as part of the USGS's Toxic Waste-Ground-water Contamination Program. Land use map; mapped chemical analyses. Discussion of ground-water chemistry and susceptibility of groundwater to contamination.

- Bell, A.D., K.R. Blaney, K.J. Oliver, and R.E. Miller 1994
Middle Rio Grande water assessment: Middle Rio Grande land use trend analysis geographic information system data base
 Middle Rio Grande Water Assessment, supporting document no. 13, U.S. Bureau of Reclamation, Albuquerque area office
 Land use trend analysis for 1935, 1954/55, 1970's and 1992/93, conducted to identify uses related to groundwater resources, including riparian vegetation, agricultural and urban lands. Description of the GIS database constructed for each time period.
- Hansen, S, and C. Gorbach 1997
Middle Rio Grande water assessment final report
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office
 Hydrogeology of Albuquerque Basin; Land use and water supply; Management of water resources including conjunctive use, aquifer recharge, legal considerations, recommendations
- King, Dr. Phillip J., and L. Wan 1997
Middle Rio Grande water assessment: Determination of soil conservation service modified Blaney-Criddle crop coefficients in New Mexico
 Middle Rio Grande Water Assessment, supporting document no. 5, U.S. Bureau of Reclamation, Albuquerque area office
 Presents SCS Blaney-Criddle crop coefficients calibrated for phreatophytes and several major crops in the Middle Rio Grande region for use in consumptive use studies.
- Lansford, R.R., E.T. Garnett, and B.J. Creel 1973
An analytical interdisciplinary evaluation of the utilization of the water resources of the Rio Grande in New Mexico--Middle Rio Grande
 New Mexico Water Resources Research Institute Report 22
 Overview of water management practices, hydrology, hydrogeology, and description of Middle Rio Grande basin. Impacts of various water resource scenarios on various socioeconomic models are evaluated.
- Summers, W.K. 1995
Land use trends and their effect on water use and the hydrologic budget in the Albuquerque Basin, New Mexico
 Middle Rio Grande Water Assessment, supporting document no. 14 U.S. Bureau of Reclamation, Albuquerque area office
 Describes land use and water use during the years 1935, 1955, 1975, & 1993. Evaluates trends and effects on hydrologic budget.
- Thorn, C., D. McAda, & J. Kernodle 1993
Geohydrologic framework and hydrologic conditions in the Albuquerque Basin, Central New
 U.S. Geological Survey Water-Resources Investigation Report 93-4149
 Description of geohydrologic framework and conditions in the Albuquerque Basin, including climate, land use and cover, tectonics, hydrostratigraphy, hydrologic properties, water budget and surface-ground water interaction. Summary table of aquifer test data.
- U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Analysis of soils textures and permeabilities; Deep Percolation for Kentucky bluegrass
 Middle Rio Grande Water Assessment, supporting document no. 7, U.S. Bureau of Reclamation, Albuquerque area office
 a) Analysis of soil texture and permeability, including supporting memoranda. Tabulations of soil series and associated soil texture, permeabilities, moisture holding capacity, crop-specific deep percolation %s, accretion rates.
 b) Evaluation of deep percolation for Kentucky bluegrass; acreages at historic points in time, percolation rates for subunits in Albuquerque area.

- U.S. Bureau of Reclamation 1995
Middle Rio Grande water assessment: Estimates of consumptive use requirements for irrigated agriculture and riparian vegetation, Volume I & Volume II
 Middle Rio Grande Water Assessment, supporting document no. 6, U.S. Bureau of Reclamation, Albuquerque area office
 The SCS modified Blaney-Criddle method was used to estimate Consumptive Irrigation Requirements by crop type (1935-1992) on a monthly basis for each subunits of the Albuquerque Basin. Volume I and II. Data includes crop coefficients, cropping pattern, irrigated acreage, temperature and precipitation.
- Wilson, B.C., and A.A. Lucero 1997
Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in New Mexico State Engineer Office Technical Report 49
 Water withdrawals and depletions in New Mexico counties and river basins in 1995 are tabulated for nine water use categories, methods for estimation of depletions are described.
- Water Use: Native Vegetation*
- Bell, A.D., K.R. Blaney, K.J. Oliver, and R.E. Miller 1994
Middle Rio Grande water assessment: Middle Rio Grande land use trend analysis geographic information system data base
 Middle Rio Grande Water Assessment, supporting document no. 13, U.S. Bureau of Reclamation, Albuquerque area office
 Land use trend analysis for 1935, 1954/55, 1970's and 1992/93, conducted to identify uses related to groundwater resources, including riparian vegetation, agricultural and urban lands. Description of the GIS database constructed for each time period.
- Goetz, C.L. and S.G. Shelton 1990
Infiltration and evapotranspiration within the Albuquerque, New Mexico area with a section on historical water-resources trends during the 1954-1980's period of urban growth
 U.S. Geological Survey Water-Resources Investigations report 90-4055
 Field investigations to measure localized infiltration and evapotranspiration at varied sites in the metropolitan area are described. Statistical analysis of trends in run-off, streamflow, groundwater pumpage and groundwater levels are summarized.
- Hansen, S, and C. Gorbach 1997
Middle Rio Grande water assessment final report
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office
 Hydrogeology of Albuquerque Basin; Land use and water supply; Management of water resources including conjunctive use, aquifer recharge, legal considerations, recommendations
- King, Dr. Phillip J., and L. Wan 1997
Middle Rio Grande water assessment: Determination of soil conservation service modified Blaney-Criddle crop coefficients in New Mexico
 Middle Rio Grande Water Assessment, supporting document no. 5, U.S. Bureau of Reclamation, Albuquerque area office
 Presents SCS Blaney-Criddle crop coefficients calibrated for phreatophytes and several major crops in the Middle Rio Grande region for use in consumptive use studies.
- Scurlock, Dan 1998
From the Rio to the Sierra: An environmental history of the Middle Rio Grande Basin
 USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO, General Technical Report RMRS-GTR-5
 Characterization of eco-systems, river, climatic, riparian and human activities in the Rio Grande Basin from 1540 to the present.

- Summers, W.K. 1995
Land use trends and their effect on water use and the hydrologic budget in the Albuquerque Basin, New Mexico
 Middle Rio Grande Water Assessment, supporting document no. 14 U.S. Bureau of Reclamation, Albuquerque area office
 Describes land use and water use during the years 1935, 1955, 1975, & 1993. Evaluates trends and effects on hydrologic budget.
- Thorn, C.R. 1995
Surface-water discharge and evapotranspiration rates for grass and bare soil along a reach of the Rio Grande, Albuquerque, New Mexico, 1989-1995
 U.S. Geological Survey Open-File Report 95-419
 Floodplain cross-sections were established along Paseo del Norte and Rio Bravo Blvd across which surface water flow in drains, laterals, canals, and ditches is reported for every four to six weeks during the six year study period. Evapotranspiration rates calculated at six sites, using hemispheric chamber, are summarized. Sites include grass and bare soil areas.
- U.S. Bureau of Reclamation
Middle Rio Grande water assessment: Phreatophyte investigations Bernardo transpirometers (final progress report) - draft, not published
 Middle Rio Grande Water Assessment, supporting document no. 4, U.S. Bureau of Reclamation, Albuquerque area office
 Reproduction of Final Progress Report, 1974-80, Preatophyte Investigations, Bernardo Evapotranspirometers. (USBR unpublished memorandum). Field investigation of water use by riparian vegetation using "tanks". Calculated consumptive use for salt cedar, Russian olive, saltgrass and bare ground. Evaluation of relationship between consumptive use and depth to water, plant maturity, density and salt content of water.
- U.S. Bureau of Reclamation 1995
Middle Rio Grande water assessment: Estimates of consumptive use requirements for irrigated agriculture and riparian vegetation, Volume I & Volume II
 Middle Rio Grande Water Assessment, supporting document no. 6, U.S. Bureau of Reclamation, Albuquerque area office
 The SCS modified Blaney-Criddle method was used to estimate Consumptive Irrigation Requirements by crop type (1935-1992) on a monthly basis for each subunits of the Albuquerque Basin. Volume I and II. Data includes crop coefficients, cropping pattern, irrigated acreage, temperature and precipitation.
- Wilson, B.C., and A.A. Lucero 1997
Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in New Mexico
 New Mexico State Engineer Office Technical Report 49
 Water withdrawals and depletions in New Mexico counties and river basins in 1995 are tabulated for nine water use categories, methods for estimation of depletions are described.
- Data
- Anderholm, S.K. 1988
Ground-water geochemistry of the Albuquerque-Belen basin, central New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 86-4094
 Identification of areal distribution of groundwater quality, relation of water quality to the groundwater flow system and processes resulting in differences. Water quality tabulation and maps.
- Anderholm, S.K. and T.F. Bullard 1987
Description of piezometer nests and water levels in the Rio Grande valley near Albuquerque, Bernalillo County, New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 87-122
 Lithologic and geophysical logs and water-level data are provided for twenty four piezometers installed in the Rio Grande valley near Albuquerque. The piezometers were installed along two sections (Montano Road and Rio Bravo Blvd.) with four piezometers per section and three piezometers per nest.

- Bell, A.D., K.R. Blaney, K.J. Oliver, and R.E. Miller 1994
Middle Rio Grande water assessment: Middle Rio Grande land use trend analysis geographic information system data base
 Middle Rio Grande Water Assessment, supporting document no. 13, U.S. Bureau of Reclamation, Albuquerque area office
 Land use trend analysis for 1935, 1954/55, 1970's and 1992/93, conducted to identify uses related to groundwater resources, including riparian vegetation, agricultural and urban lands. Description of the GIS database constructed for each time period.
- Bjorklund, L. J., and B. W. Maxwell 1961
Availability of groundwater in the Albuquerque Area, Bernalillo and Sandoval Counties, New Mexico
 New Mexico State Engineer Technical Report No. 21
 Hydrogeology of Albuquerque area including geology, groundwater occurrence, groundwater depths and flow patterns, groundwater chemistry, groundwater recharge and discharge mechanisms, and locations of area wells. Results from aquifer tests.
- Blanchard, P.J. 1993
Ground-water-level fluctuations in the Cochiti Dam-Pena Blanca area, Sandoval County, New Mexico, 1976-1989
 U.S. Geological Survey Water-Resources Investigation Report 92-4193
 Twelve well pairs were installed to determine the vertical component of groundwater flow in the upper 150 feet of the saturated zone in the vicinity of Pena Blanca. Water levels, streamflow and reservoir levels are provided.
- Gould, J.L. 1994
Middle Rio Grande water assessment: Middle Rio Grande channel permeameter investigation
 Middle Rio Grande Water Assessment, supporting document no. 11, U.S. Bureau of Reclamation, Albuquerque area office
 Falling head and constant head permeameter tests were conducted in the channel of the Rio Grande at five locations. Average gain and loss rates are calculated from investigation data; investigation difficulties and uncertainty in results are discussed.
- Gould, J.L., and S. Hansen 1994
Middle Rio Grande water assessment: Canal seepage field investigations performed
 Middle Rio Grande Water Assessment, supporting document no. 12, U.S. Bureau of Reclamation, Albuquerque area office
 Test ponds ranging in length from 530 to 1050 feet at 5 locations were constructed, filled and monitored; instantaneous and average seepage rates to the unsaturated subsurface were calculated using water level, rainfall and pan evaporation data for each pond.
- Hansen, S, and C. Gorbach 1997
Middle Rio Grande water assessment final report
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office
 Hydrogeology of Albuquerque Basin; Land use and water supply; Management of water resources including conjunctive use, aquifer recharge, legal considerations, recommendations
- Hansen, S. 1994
Middle Rio Grande water assessment: Detailed surface water budget for the Albuquerque reach for the Rio Grande during the 1993 & 1994 study period
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office; and the City of Albuquerque
 Results and discussion of stream flow monitoring program and water budget analysis conducted from late summer 1993 to winter 1994, to measure surface water system losses in the reach between Bernalillo and Isleta Pueblo.
- Hansen, S. 1994
Middle Rio Grande water assessment: Riparian corridor alluvium steady state ground water investigation concerning Rio Grande channel loss contributions to recharge, final draft
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office; and the City of Albuquerque
 Compilation and analysis of water level data from shallow alluvial wells in Rio Grande riparian corridor near Albuquerque. Hydrographs and profiles of weekly-monthly water level data from shallow wells along 5 cross-sections between Sandia and Rio Bravo. Related data in appendix includes logs and hydraulic conductivity estimates.

- Hawley, J.W. and C.S. Haase 1992
Hydrogeologic framework of the northern Albuquerque Basin.
 New Mexico Bureau of Mines and Mineral Resources open-file report 387
 Geologic, hydrologic and geophysical data combined into conceptual hydrogeologic model of the Northern Albuquerque Basin in the Bernalillo County area.
- Hawley, J.W., and T.M. Whitworth 1996
Hydrogeology of potential recharge areas for the basin and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico
 New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D (2 volumes)
 Discussion of hydrogeologic basis for identification of recharge areas (Hawley); relationships among permeability, porosity, grain-size, in hydrostratigraphic units at recharge sites (Detmer); comparison of geophysical logs and vertical permeability at PSMW 19 and Coronado 2 wells (Haneberg); and hydrogeochemical modeling of proposed artificial recharge (Whitworth).
- Kernodle, J., R. Miller & W. Scott 1987
Three-dimensional model simulation of transient ground-water flow in the Albuquerque-Belen Basin, New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 86-4194
 Results of computer simulations of groundwater flow under transient conditions, 1907 to 1979, in the Albuquerque-Belen Basin and the analysis of the sensitivity of the model to minor changes in values of simulated aquifer properties.
- Lansford, R.R., E.T. Garnett, and B.J. Creel 1973
An analytical interdisciplinary evaluation of the utilization of the water resources of the Rio Grande in New Mexico--Middle Rio Grande
 New Mexico Water Resources Research Institute Report 22
 Overview of water management practices, hydrology, hydrogeology, and description of Middle Rio Grande basin. Impacts of various water resource scenarios on various socioeconomic models are evaluated.
- New Mexico State Engineers Office 1959
Hydrologic summary: New Mexico streamflow and reservoir content 1888-1954
 State of New Mexico, State Engineer Office, Technical Report No. 7
 Tabulated flow data for gaging stations in the Rio Grande, Arkansas, and Colorado River drainages through 1954. Index of availability of discharge, reservoir content, sediment and chemical quality records by calendar year.
- Reeder, H.O., L.J. Bjorklund, and G.A. Dinwiddie 1967
Quantitative analysis of water resources in the Albuquerque area, New Mexico
 New Mexico State Engineer Technical Report No. 33
 Analysis of Albuquerque basin water resources and projections on future availability based upon historic hydrologic data and expected population growth.
- Shomaker, J.W., Finch, S.T. Jr., and Pearson, J.W. 1994
Effects of pumping water-supply wells, Intel Corporation, Sandoval county, New Mexico
 Consultant report for Intel Corporation, New Mexico State Engineer Office (related well file numbers RG-57125 through RG-57125-S-2)
 Using the Albuquerque Basin model (Kernodle and others, 87) as a starting point, modifications were made with the objective of improve model representation of hydrogeology and resolution in the Rio Rancho-Corrales vicinity, for the purpose of evaluating impacts of proposed pumping by Intel Corporation. Includes water level and pumpage data used in calibration, summary of aquifer tests.

- Summers, W.K. 1995
Land use trends and their effect on water use and the hydrologic budget in the Albuquerque Basin, New Mexico
 Middle Rio Grande Water Assessment, supporting document no. 14 U.S. Bureau of Reclamation, Albuquerque area office
 Describes land use and water use during the years 1935, 1955, 1975, & 1993. Evaluates trends and effects on hydrologic budget.
- Thorn, C., D. McAda, & J. Kernodle 1993
Geohydrologic framework and hydrologic conditions in the Albuquerque Basin, Central New
 U.S. Geological Survey Water-Resources Investigation Report 93-4149
 Description of geohydrologic framework and conditions in the Albuquerque Basin, including climate, land use and cover, tectonics, hydrostratigraphy, hydrologic properties, water budget and surface-ground water interaction. Summary table of aquifer test data.
- Thorn, C.R. 1995
Surface-water discharge and evapotranspiration rates for grass and bare soil along a reach of the Rio Grande, Albuquerque, New Mexico, 1989-1995
 U.S. Geological Survey Open-File Report 95-419
 Floodplain cross-sections were established along Paseo del Norte and Rio Bravo Blvd across which surface water flow in drains, laterals, canals, and ditches is reported for every four to six weeks during the six year study period. Evapotranspiration rates calculated at six sites, using hemispheric chamber, are summarized. Sites include grass and bare soil areas.
- U.S. Bureau of Reclamation
Middle Rio Grande water assessment: Phreatophyte investigations Bernardo transpirometers (final progress report) - draft, not published
 Middle Rio Grande Water Assessment, supporting document no. 4, U.S. Bureau of Reclamation, Albuquerque area office
 Reproduction of Final Progress Report, 1974-80, Preatophyte Investigations, Bernardo Evapotranspirometers. (USBR unpublished memorandum). Field investigation of water use by riparian vegetation using "tanks". Calculated consumptive use for salt cedar, Russian olive, saltgrass and bare ground. Evaluation of relationship between consumptive use and depth to water, plant maturity, density and salt content of water.
- U.S. Bureau of Reclamation 1992
Middle Rio Grande water assessment: Ground water quality report
 Middle Rio Grande Water Assessment, supporting document no. 1, U.S. Bureau of Reclamation, Albuquerque area office
 Overview of groundwater quality conditions. Summary tabulations and figures.
- U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Drilling, logging, monitoring well installation; hydraulic conductivity tests; and infiltration gallery feasibility evaluation technical memoranda
 Middle Rio Grande Water Assessment, supporting document no. 8, U.S. Bureau of Reclamation, Albuquerque area office
 5/7/93 memorandum transmitting well logs for 16 wells along 5 transects in Albuquerque area, drilled in April 1993 for shallow alluvial investigations; hydraulic conductivity test procedures and results at six wells; 2/9/95 memorandum Busch to Hanson re. infiltration gallery installation alternatives.
- U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Analysis of soils textures and permeabilities; Deep Percolation for Kentucky bluegrass
 Middle Rio Grande Water Assessment, supporting document no. 7, U.S. Bureau of Reclamation, Albuquerque area office
 a) Analysis of soil texture and permeability, including supporting memoranda. Tabulations of soil series and associated soil texture, permeabilities, moisture holding capacity, crop-specific deep percolation %s. accretion rates.
 b) Evaluation of deep percolation for Kentucky bluegrass; acreages at historic points in time, percolation rates for subunits in Albuquerque area.

- U.S. Bureau of Reclamation 1993
Middle Rio Grande water assessment: Surface water quality report
 Middle Rio Grande Water Assessment, supporting document no. 2, U.S. Bureau of Reclamation, Albuquerque area office
 Compilation and analysis of water quality parameters in Rio Grande at San Felipe, with comparison to water quality at Albuquerque and Isleta. Review of trends, spatial differences and variability. Concludes that Rio Grande water is calcium-bicarbonate dominant, is of suitable quality for recharge to aquifer and is suitable for drinking water with conventional treatment.
- U.S. Bureau of Reclamation 1994
Middle Rio Grande channel permeameter investigations technical memorandum, draft report
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, Albuquerque area office, New Mexico Interstate Stream Commission
 Investigation to measure conductivity of river bed materials and in-situ losses through river bed sediments, using permeameters at five locations in the Albuquerque area. Interpretation Data includes permeameter results, soil gradation tables. Photos. Data used to estimate river gains/losses. Gains more prevalent, from this data. Discussion of uncertainty and validity of results.
- U.S. Bureau of Reclamation 1995
Middle Rio Grande water assessment: Estimates of consumptive use requirements for irrigated agriculture and riparian vegetation, Volume I & Volume II
 Middle Rio Grande Water Assessment, supporting document no. 6, U.S. Bureau of Reclamation, Albuquerque area office
 The SCS modified Blaney-Criddle method was used to estimate Consumptive Irrigation Requirements by crop type (1935-1992) on a monthly basis for each subunits of the Albuquerque Basin. Volume I and II. Data includes crop coefficients, cropping pattern, irrigated acreage, temperature and precipitation.
- U.S. Bureau of Reclamation 1995
Middle Rio Grande water assessment: Flood wave test and transient groundwater analysis, technical memorandum
 Middle Rio Grande Water Assessment, U.S. Bureau of Reclamation, U.S. Geological Survey, Bureau of Indian Affairs
 A flood wave test was conducted to collect transient groundwater response from several cross sections of piezometers, to provide insight into the hydraulic connection between the river and the shallow groundwater system (spring 1994). Data includes numerous figures and tables on well field data, and model summaries.
- Wilkins, D.W. 1987
Characteristics and properties of the basin-fill aquifer determined from three test wells west of Albuquerque, Bernalillo County, New Mexico
 U.S. Geological Survey, Water Resources Investigation Report 86-4187
 Three deep test holes were drilled and tested west of Albuquerque; included are detailed geologic and geophysical logs; water quality analyses and aquifer test results.
- Wilson, B.C., and A.A. Lucero 1997
Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in New Mexico
 New Mexico State Engineer Office Technical Report 49
 Water withdrawals and depletions in New Mexico counties and river basins in 1995 are tabulated for nine water use categories, methods for estimation of depletions are described.
- Water Quality
 Anderholm, S.K. 1987
Reconnaissance of hydrology, land use, ground-water chemistry, and effects of land use on ground-water chemistry in the Albuquerque-Belen Basin, Albuquerque, New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 86-4174
 USGS reconnaissance study in the Albuquerque-Belen basin area, as part of the USGS's Toxic Waste-Ground-water Contamination Program. Land use map; mapped chemical analyses. Discussion of ground-water chemistry and susceptibility of groundwater to contamination.

- Anderholm, S.K. 1988
Ground-water geochemistry of the Albuquerque-Belen basin, central New Mexico
 U.S. Geological Survey Water-Resources Investigation Report 86-4094
 Identification of areal distribution of groundwater quality, relation of water quality to the groundwater flow system and processes resulting in differences. Water quality tabulation and maps.
- Bexfield, L.M., and Anderholm, S.K. 1997
Water-quality assessment of the Rio Grande valley, Colorado, New Mexico, and Texas--Ground-water quality in the Rio Grande floodplain, Cochiti lake, New Mexico, to El
 U.S. Geological Survey water-resources investigations report 96-4249
 Water quality assessment of 30 wells in the Rio Grande floodplain as part of the National Water-Quality Assessment Program. Tabulation of results, characterization of groundwater types, and discussion of occurrence and distribution..
- Duisberg, P. C. 1955
Problems of the Upper Rio Grande: An Arid Zone River. Special symposium and discussion group of the International Arid Lands Symposium and Conference.
 U.S. Commission for Arid Resource Improvement and Development. Publication No. 1
 Compilation of papers discussing water supply predictions, conditions on irrigated lands along the Rio Grande, municipal water requirements, and salinity problems.
- Hawley, J.W., and T.M. Whitworth 1996
Hydrogeology of potential recharge areas for the basin and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico
 New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D (2 volumes)
 Discussion of hydrogeologic basis for identification of recharge areas (Hawley); relationships among permeability, porosity, grain-size, in hydrostratigraphic units at recharge sites (Detmer); comparison of geophysical logs and vertical permeability at PSMW 19 and Coronado 2 wells (Haneberg); and hydrogeochemical modeling of proposed artificial recharge (Whitworth).
- Levings, G.W., D.F. Healy, S.F. Richey, and L.F. Carter 1998
Water quality in the Rio Grande valley, Colorado, New Mexico, and Texas, 1992-1995
 U.S. Geological Survey circular 1162
 Summary of major findings from the USGS water quality assessment of the Rio Grande valley study between 1992 and 1995, and how these findings relate to regional and national findings/concerns. Discussion of environmental setting, hydrologic conditions, organics, nutrients, radon, trace elements, fish communities and stream habitat.
- New Mexico Water Resources Research Institute 1988
Proceedings of the 32nd Annual New Mexico Water Conference: Ground water management
 New Mexico Water Resources Research Institute Report No. 229
 Conference focused on management of groundwater resources. Papers cover groundwater quality protection programs, recharge projects, groundwater quality and protection in Albuquerque, and Albuquerque's water resources management plan.
- U.S. Bureau of Reclamation 1992
Middle Rio Grande water assessment: Ground water quality report
 Middle Rio Grande Water Assessment, supporting document no. 1, U.S. Bureau of Reclamation, Albuquerque area office
 Overview of groundwater quality conditions. Summary tabulations and figures.

Middle Rio Grande water assessment: Surface water quality report

Middle Rio Grande Water Assessment, supporting document no. 2, U.S. Bureau of Reclamation, Albuquerque area office

Compilation and analysis of water quality parameters in Rio Grande at San Felipe, with comparison to water quality at Albuquerque and Isleta. Review of trends, spatial differences and variability. Concludes that Rio Grande water is calcium-bicarbonate dominant, is of suitable quality for recharge to aquifer and is suitable for drinking water with conventional treatment.