

Topic category: Hydrology
Keywords: Gila River, flood
County: Arizona and New Mexico

Title: Floods of November 1965 to January 1966 in the Gila River basin, Arizona and New Mexico, and adjacent basins in Arizona

Author: Aldridge, B.N.

Date: 1970

Publication/journal/publisher: U.S. Geological Survey, Water Supply Paper 1850-C, iv, 176 p.: illus., chart, maps; 24 cm.

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: \$3.75

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp1850c>

Document Location: USGS online

Work initiated by: USGS

Work funded by: USGS

Type of review: Unknown

Location of Work: Arizona and New Mexico

Abstract or brief summary:

Above-normal precipitation, which fell over much of Arizona and New Mexico in November and December 1965 during five distinct storm periods, caused flooding in several parts of the Gila River basin. The peak discharge during the Phoenix flood was reduced only slightly as it traveled from Granite Reef Dam on the Salt River to Gillespie Dam on the Gila River; however, the volume of flow was reduced considerably in the same reach. More than 500,000 ac-ft of water passed over Granite Reef Dam, but only 37,000 ac-ft of water reached the mouth of the Gila River. Rises in ground-water levels in the flood plains indicate that a large amount of the streamflow loss went to ground-water recharge.

Topic category: Hydrology
Keywords: Gila River, flood
County: Arizona and New Mexico

Title: Floods of November 1978 to March 1979 in Arizona and West-Central New Mexico

Author: Aldridge, B.N. and T.A. Hales

Date: 1983

Publication/journal/publisher: U.S. Geological Survey, Open-File Report 83-201, 170 p., ill., maps; 28 cm.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: Unknown

Web site address: <http://pubs.er.usgs.gov/usgspubs/ofr/ofr83201>

Document Location: Contact USGS

Work initiated by: USGS

Work funded by: USGS

Type of review: Unknown

Location of Work: Arizona and New Mexico

Abstract or brief summary:

Widespread rainfall of 3 to 9 inches in the mountains area of Arizona and West-Central New Mexico during December 17-20, 1978, caused maximum known discharges on the Gila River in New Mexico and on several streams in Arizona. At Phoenix, the Salt River was the highest since 1920 but was only slightly higher than the flood in March 1978. The Agua Fria River was the highest since 1919. The floods caused 12 deaths and more than \$150 million in damage. Damage of \$51.8 million occurred in Maricopa County, Arizona. Ten counties in Arizona and three counties in New Mexico were declared disaster areas. Unusually high volumes of runoff occurred on the Salt, Verde, and Agua Fria Rivers upstream from reservoirs. Overflow from the reservoir systems caused flooding downstream. Storage in the reservoirs on the Salt and Verde River reduced the peak discharge of the Salt River at Phoenix from a potential of about 234,000 cubic feet per second to 126,00 cubic feet per second and greatly reduced the duration of the flood.

Topic category: Hydrology
Keywords: Floods
County: Arizona and west-central New Mexico

Title: Floods of November 1978 to March 1979 in Arizona and West-Central New Mexico

Author: Aldridge, B.N. and T.A. Hales

Date: 1984

Publication/journal/publisher: U.S. Geological Survey, Water Supply Paper 2241, iv, 149 p.: ill., maps, 28 cm.; 2 plates in pocket

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.):
USGS publication search

Purchase Price: \$5.50

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp2241>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona and west-central New Mexico

Abstract or brief summary:

Severe flooding occurred in parts of the Little Colorado and Gila River basins as a result of a storm that occurred December 17-20, 1978. The central highlands received 3 to 10 inches of precipitation that was augmented by snowmelt to altitudes of 10,000 feet.

Topic category: Hydrology
Keywords: Flood control, Gila River
County: Southwest New Mexico

Title: Survey Report for Flood Control and Related Purposes - Gila River and Tributaries - Arizona and New Mexico - Upper Gila Interim

Author: Army Corps of Engineers

Date: 1987

Publication/journal/publisher: U.S. Army Corps of Engineers

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by: U.S. ACOE

Work funded by: U.S. ACOE

Type of review: Unknown

Location of Work: Southwest New Mexico

Abstract or brief summary:

The focus of this study was on development of major upstream dams for both flood control and water conservation purposes. Dams at the Quail Springs, Conner, and Camelsback sites and channel clearing measures in Safford Valley were considered, and local flood damage reduction measures were evaluated. The major study conclusions were that (1) no comprehensive solution to both flooding and water conservation is economically justified at this time, (2) the feasibility of channel clearing in the Safford Valley as an effective method for water conservation is uncertain, and (3) that no combination of local flood control measures could provide an economically justified comprehensive solution to the flooding and water supply problems in the Gila River Basin. Based on the findings of this study, no Federal action should be taken to implement comprehensive plans for flood damage reduction or combined flood damage reduction/water conservation in the Gila River Basin.

Topic category: Hydrology
Keywords: Upper Gila River, flood, Conner Dam
County: Southwestern NM

Title: Upper Gila River Flood Study - Conner Dam, New Mexico

Author: Army Corps of Engineers, Hydrologic Engineering Section of the Los Angeles District

Date: 1985

Publication/journal/publisher: Los Angeles District, U.S. Army Corps of Engineers

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by: U.S. ACOE

Work funded by: U.S. BOR

Type of review: Unknown

Location of Work: Upper Gila, Connor Dam, Southwestern NM

Abstract or brief summary:

This report documents the hydrologic analysis conducted through FY-85 (June through September) by the Hydrologic Engineering Section of the Los Angeles District Corps of Engineers. The objective of this hydrologic analysis was to evaluate the flood reduction potential of the proposed Conner Dam on the Gila River. The reservoir configuration included a single purpose water supply reservoir and multi-purpose combinations of flood control and water supply at a site on the Gila River near Redrock, New Mexico. The work was performed in support of the ongoing U.S. BOR Upper Gila Water Supply Study (a segment of the Central Arizona Project).

Topic category: Hydrology

Keywords: Watershed management, watershed protection, Colorado River Basin, ecosystem

County: New Mexico

Title: Contributions of watershed management research to ecosystem-based management in the Colorado River Basin

Author: Baker, M.B., Jr. and P.F. Ffolliott

Date: 2000

Publication/journal/publisher: pp. 117-128 in Ffolliott, P.F., M.B. Baker, Jr., C.B. Edminster, M.C. Dillion, and K.L. Mora (technical coordinators), Land stewardship in the 21st Century: The contributions of watershed management. Proceedings RMRS-P-13, USDA Forest Service.

Type of document: Electronic (PDF)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Unknown

Web site address: http://www.fs.fed.us/rm/pubs/rmrs_p013/rmrs_p013_117_128.pdf

Document Location: online

Work initiated by: USFS?

Work funded by: USFS?

Type of review: Peer review

Location of Work: Colorado River Basin

Abstract or brief summary:

The Rocky Mountains and Southwestern United States, essentially the Colorado River Basin, have been the focus of a wide range of research efforts to learn more about the effects of natural and human induced disturbances on the functioning, processes, and components of the regions' ecosystems. Watershed research, spearheaded by the USDA Forest Service and its cooperators, leads to a better understanding of the regions' ecology, and to the formulation of management guidelines to meet the increasing needs of people living in these regions and throughout the Western United States. This paper presents pertinent details of watershed research that has been accomplished in the Colorado River Basin two regions and to provides highlights of the research results.

Topic category: Hydrology
Keywords: Water rights, water transfer
County: Grant County

Title: Exxon Water Rights (GSF 1745) Transfer Hearing

Author: Balleau Groundwater, Inc.

Date: 2002

Publication/journal/publisher: Unpublished data , January 2002

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Unknown

Web site address: <http://www.ose.state.nm.us/water-info/hearing-decisions/hu01-021.pdf>

Document Location: Contact NM OSE

Work initiated by:

Work funded by:

Type of review:

Location of Work: Silver City

Abstract or brief summary:

Topic category: Hydrology
Keywords: Silver City, water use, well field, planning
County: Grant County

Title: Supplement on Water Use and Wellfield Service - Town of Silver City Water Plan (Draft)

Author: Balleau Groundwater, Inc.

Date: 2006

Publication/journal/publisher: BALLEAU GROUNDWATER, INC., 901 Rio Grande Blvd. NW, Suite F-242, Albuquerque, New Mexico 87104, (505) 247-2000

Type of document: Electronic file (PDF)

Source of document / Search method (phone, internet, library, etc.): ISC provided electronic draft, available online

Purchase Price: NA

Web site address:

<http://www.townofsilvercity.org/utilities/Reprints/Supplement%20on%20Water%20Use%20and%20Well%20Field%20Service.pdf>

Document Location: DBS&A network

Work initiated by:

Work funded by:

Type of review:

Location of Work: Silver City, NM

Abstract or brief summary:

The Town of Silver City supplies its municipal water system from groundwater supplied by the Frank's and Woodward wellfields, and the Anderson and Gabby Hayes wells. The aquifer that supplies the wells is the Gila Group aquifer. The Town of Silver City is interested in sources for future water use and wellfield service life. An evaluation of wellfield service life based on the widely-applied MODFLOW program is used to estimate future wellfield conditions.

Topic category: Hydrology

Keywords: Water rights

County: Grant County

Title: Miscellaneous exhibits for OSE File GSF-1745 et al into GSF-1014 through GSF-1018

Author: Balleau Groundwater, Inc.

Date: Undated

Publication/journal/publisher: Balleau Groundwater, Inc.

Type of document: Printed exhibits

Source of document / Search method (phone, internet, library, etc.):

DBS&A Southwest NM Library

Purchase Price: Contact Balleau

Web site address:

Document Location: DBS&A SW library

Work initiated by: Balleau Groundwater, Inc.

Work funded by: unknown

Type of review: Unknown

Location of Work: Silver City area

Abstract or brief summary:

Includes exhibits 3A through 25, but missing some exhibits.

Topic category: Hydrology
Keywords: Water management, New Mexico
County: New Mexico

Title: Taking charge of our water destiny: A water management policy guide for New Mexico in the 21st Century

Author: Belin, A., C. Bokum, and F. Titus

Date: 2002

Publication/journal/publisher: 1000 Friends of New Mexico

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: available with earthscope password

Web site address: Abstract available at <http://www.earthscope.org/p1/bea02/>. Full text available with earthscope password.

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

The drought years of 1996, 2000, and 2002 have made clear to many New Mexicans that our water supplies are limited. In many places we are using water faster than it can be replenished; our aquifers are being depleted, and our streams are drying up. Our state has no plan to meet ever-increasing demands for water with our finite water supplies. Every day, more subdivisions are built on our farmland, more wells are drilled, and we pray for rain. We passively but inexorably allow the future of our state to be determined by the day-to-day operation of outdated laws, policies, and regulations relating to water.

Topic category: Hydrology
Keywords: Gila River Basin, Grant County
County: Grant County

Title: Gila River Investigation: Report on the Possibilities of Irrigation and Electrical Power Development in Grant County, New Mexico

Author: Black, R. F.

Date: 1927

Publication/journal/publisher: Unpublished report for the State Engineer, New Mexico

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River, Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: water use change, Mimbres basin,
hydrologic criteria
County: Southwestern NM

Title: Use of Hydrologic Criteria to Expedite Changes in Water Use in the Mimbres Basin, New Mexico

Author: Blair, A.W. and K. Stevens

Date: 1991

Publication/journal/publisher: New Mexico Water Research Institute. Technical Completion Report No. 255, Volume II, June 1991. Prepared in cooperation with Department of Economics, Department of Geology, University of New Mexico, Civil, Agricultural, and Geological Engineering Department, New Mexico State University.

Type of document: Electronic file (PDF)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: online

Web site address: <http://wrri.nmsu.edu/publish/techrpt/tr255/tr255.pdf>

Document Location: WRRI online

Work initiated by: WRRI, NMSU, UNM

Work funded by: WRRI, USGS

Type of review: Unknown

Location of Work: Mimbres Basin

Abstract or brief summary:

Along with simplifying the existing Mimbres Basin Criteria, this report also proposes to review some of the criteria's basic elements. The proposed computerized procedures can help define many different technical considerations and allow both individuals and government agencies to make some preliminary time and money-saving decisions.

Topic category: Hydrology
Keywords: Fire management, ecosystems, Gila River
County: Southwestern NM

Title: The historical role of fire and ecosystem management of fires, Gila National Forest, New Mexico:
A PowerPoint presentation

Author: Boucher, P.F.

Date: 2002

Publication/journal/publisher: pp. 91-98 in Ortega Klett, C.T. (ed.) Proceedings, 46th Annual New Mexico Water Conference: New Mexico watershed management: Restoration, utilization, and protection. November 5-7, 2001, Santa Fe, New Mexico. Report No. 323, WRRRI. June 2002.

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: <http://wrrri.nmsu.edu/publish/watcon/proc46/boucher.pdf>

Document Location: WRRRI online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila National Forest, New Mexico

Abstract or brief summary:

Prescribed natural fire has been a part of resource management on the Gila National Forest since 1975.

Topic category: Hydrology
Keywords: Upper Gila River
County: Arizona/New Mexico

Title: Upper Gila River Project, Arizona-New Mexico, Concluding Report

Author: Bureau of Reclamation

Date:

Publication/journal/publisher:

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Hooker Dam, Upper Gila River
County: Southwest New Mexico

Title: Hooker Dam Upper Gila River Investigations Arizona - New Mexico

Author: Bureau of Reclamation

Date: 1930

Publication/journal/publisher: Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila river
County: Arizona/New Mexico

Title: Upper Gila River Investigations of 1929-1930.

Author: Bureau of Reclamation

Date: 1930

Publication/journal/publisher: USDI Bureau of Reclamation, Denver, CO

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Land platts, Upper Gila River
County: Southwestern New Mexico

Title: Land Platts Upper Gila River New Mexico 1883 thru 1940

Author: Bureau of Reclamation

Date: 1940

Publication/journal/publisher: Bureau of Reclamation

Type of document: Map

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila River, Southwestern New Mexico

Abstract or brief summary:

Topic category: Hydrology

Keywords: Upper Gila River Basin, flood control, Hot Springs, Wide Hollow, and Eden Springs tributaries

County: Southwest New Mexico

Title: Supplements to the Upper Gila River Flood Control Report for the Hot Springs-Wide Hollow-Eden Springs Tributary, Steeple Rock Wash Tributary, Lines-Pitts Washes Tributary, Goat Camp Creek Tributary, Duck Creek Headwaters Tributary, and Upper Gila River Watershed studies

Author: Bureau of Reclamation

Date: 1941

Publication/journal/publisher: Bureau of Reclamation

Type of document: Book

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by: U.S. BOR

Work funded by: U.S. BOR

Type of review: Unknown

Location of Work: Upper Gila River, Southwestern, NM

Abstract or brief summary:

This supplement provides flood control reports for the Hot Springs-Wide Hollow-Eden Springs Tributary, Steeple Rock Wash Tributary, Lines-Pitts Washes Tributary, Goat Camp Creek Tributary, Duck Creek Headwaters Tributary, and Upper Gila River Watershed studies. Each report includes a discussion of the vegetation, soils, erosion, economy, hydrology, sedimentation, flood and sedimentation damages, plan of watershed improvements for flood control purposes, effects of program expressed in physical terms, benefits from flood control programs, costs, and analysis of costs and benefits.

Topic category: Hydrology
Keywords: Gila River, water supply
County: SW Region

Title: Memorandum Report, Upper Gila River Investigations, New Mexico

Author: Bureau of Reclamation

Date: 1963

Publication/journal/publisher: U.S. Department of the Interior, Bureau of Reclamation, Region 3,
Boulder City, Nevada, January 1963.

Type of document: Book

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address: unknown

Document Location: Boulder City BOR library, Denver BOR Library

Work initiated by: Bureau of Reclamation

Work funded by: unknown

Type of review: unknown

Location of Work: Upper Gila River, NM

Abstract or brief summary:

Topic category: Hydrology
Keywords: river diversion projects
County: Arizona-Colorado

Title: Reconnaissance Report Arizona - Colorado River Diversion Projects

Author: Bureau of Reclamation

Date: 1963

Publication/journal/publisher: U.S. Dept of the Interior, Bureau of Reclamation, Region 3 AB West
Regional Director, Boulder City, NV

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona-Colorado

Abstract or brief summary:

Topic category: Hydrology
Keywords: Mimbres Basin
County: Southwest New Mexico

Title: Reconnaissance report on Mimbres Closed Basin, New Mexico

Author: Bureau of Reclamation

Date: 1965

Publication/journal/publisher: U.S. Dept. of the Interior, Bureau of Reclamation, Region 5, July 1961

Type of document: Report

Source of document / Search method (phone, internet, library, etc.): Salsa search

Purchase Price:

Web site address:

Document Location: OSE Library

Work initiated by:

Work funded by:

Type of review:

Location of Work: Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila river
County: Arizona/New Mexico

Title: Upper Gila River Project Arizona New Mexico Reconnaissance Report

Author: Bureau of Reclamation

Date: 1965

Publication/journal/publisher: Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: design flood, Hooker Dam, Upper Gila
Diversion
County: Southwest New Mexico

Title: Inflow Design Flood Study - Hooker Dam and Reservoir, Upper Gila Division, NM

Author: Bureau of Reclamation

Date: 1969

Publication/journal/publisher: U.S. Dept. of the Interior, Bureau of Reclamation

Type of document: Book

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila, Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology Keywords: Upper Gila River Basin, San Francisco River, Alma Dam County: Arizona/New Mexico

Title: Upper Gila River Project, Arizona-New Mexico Design Data for Alma Dam

Author: Bureau of Reclamation

Date: 1970

Publication/journal/publisher: Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by: U.S. BOR

Work funded by: U.S. BOR

Type of review: Unknown

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Alma Dam was investigated as part of the Upper Gila River Project investigation, oriented toward examining the water requirements of the Upper Gila River Basin (above Coolidge Dam and Reservoir), under projected water requirement and supply conditions and developing a plan to provide the quantities that would be required. The Alma facility would be an integral part of a comprehensive basin development plan, including the potential Camelsback and Hooker Dams in coordinated control of the Gila River. Alma Dam is proposed as a thin-arch concrete dam located on the San Francisco River near Glenwood, New Mexico. The structure would impound an 85,000 acre-foot reservoir extending about 6 miles upstream from the dam. This data report constitutes a request for the reconnaissance designs and estimates for Alma Dam and appurtenant works.

Topic category: Hydrology
Keywords: Upper Gila river
County: Arizona/New Mexico

Title: Upper Gila River Project Arizona - New Mexico Definite Plan Report Project Lands Appendix

Author: Bureau of Reclamation

Date: 1971

Publication/journal/publisher: Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Mimbres Basin, water resource projects
County: Southwestern New Mexico

Title: Mimbres Project, Special Test Case Report on Evaluating Multiobjective Approach to Planning Water Resource Projects

Author: Bureau of Reclamation

Date: 1972

Publication/journal/publisher: Bureau of Reclamation, Albuquerque Development Office, Region 5.
January 1972

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Mimbres Basin, Southwestern New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila river
County: Arizona/New Mexico

Title: Upper Gila River Project - Concluding Report Arizona New Mexico Concluding Report

Author: Bureau of Reclamation

Date: 1973

Publication/journal/publisher: U.S. Dept. of the Interior, Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Investigations, project planning, Hooker Dam, Alama Dam, Safford Valley, Duncan-Virden Valley
County:

Title: Upper Gila River Project Arizona New Mexico Concluding Report

Author: Bureau of Reclamation

Date: 1974

Publication/journal/publisher: Bureau of Reclamation

Type of document: Book

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price: unknown

Web site address: unknown

Document Location: unknown

Work initiated by: unknown

Work funded by: unknown

Type of review: unknown

Location of Work: Upper Gila River

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila, water supply, document design
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study Plan Formulation Working Document Designs and Estimates Supporting Information

Author: Bureau of Reclamation

Date: 1981

Publication/journal/publisher: Bureau of Reclamation

Type of document: Book

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila, water supply,
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study Stage I, Information Packet

Author: Bureau of Reclamation

Date: 1982

Publication/journal/publisher: USDI Bureau of Reclamation, Arizona Projects Office, Phoenix, AZ,
February 1, 1982.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila, Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila, water supply, alternatives
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study Special Report on Alternatives

Author: Bureau of Reclamation

Date: 1984

Publication/journal/publisher: USDI Bureau of Reclamation, Unpublished report

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila, water supply, plan
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study, Plan Formulation Working Document , Preliminary

Author: Bureau of Reclamation

Date: 1985

Publication/journal/publisher: Bureau of Reclamation, Lower Colorado Region. March/April 1985

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

DBS&A Southwest NM Library

Purchase Price: Contact BOR

Web site address:

Document Location: DBS&A SW library

Work initiated by: BOR

Work funded by: BOR

Type of review: Unknown

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Report provides discussion on setting, need for action, plan formulation, plan selection, and consultation and coordination. A series of alternatives, all more expensive than Conner Dam (including Hooker Dam), were evaluated and are discussed in this document.

Topic category: Hydrology
Keywords: Upper Gila, water supply,
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study Stage I, Information Packet

Author: Bureau of Reclamation

Date: 1986

Publication/journal/publisher: Arizona Projects Office Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila, water supply, water storage,
Mangas Creek
County: Southwestern NM

Title: Upper Gila Water Supply Study, Alternative Offstream Storage Sites to Mangas Creek

Author: Bureau of Reclamation

Date: 1986

Publication/journal/publisher: Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila, Mangas Creek, Southwestern NM

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila, water supply, plan
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study, Plan Formulation Working Document, Supplement #1, Preliminary

Author: Bureau of Reclamation

Date: 1986

Publication/journal/publisher: Bureau of Reclamation, Lower Colorado Region. May 1986

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
DBS&A Southwest NM Library

Purchase Price: Contact BOR

Web site address:

Document Location: DBS&A SW Library

Work initiated by: BOR

Work funded by: BOR

Type of review: Unknown

Location of Work: Upper Gila, Arizona/New Mexico

Abstract or brief summary:

The document is a supplement to the Plan Formulation Working Document prepared in April 1985. This supplement focuses on the plan formulation activities that have taken place since the previous document was prepared. Additional formulation activities have occurred as a result of the Fish and Wildlife Service's proposed listing of two fish species as threatened under the Endangered Species Act with critical habitat in the project area.

Topic category: Hydrology
Keywords: Upper Gila, water supply, environmental impact statement
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study, Proposed Selection for the Draft Environmental Impact Statement

Author: Bureau of Reclamation

Date: 1986

Publication/journal/publisher: U.S. Bureau of Reclamation, Lower Colorado Region, Public Meetings Announcement and Public Information Document, April 1986

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila, Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila Basin, water supply, public information
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study, Public Meetings Announcement and Public Information Document, Central Arizona Project

Author: Bureau of Reclamation

Date: 1986

Publication/journal/publisher: U.S. Dept. of the Interior, Bureau of Reclamation, Lower Colorado Region, April 1986

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price: Contact BOR

Web site address:

Document Location: DBS&A SW library

Work initiated by: BOR

Work funded by: BOR

Type of review: Unknown

Location of Work: Gila River, Arizona and New Mexico

Abstract or brief summary:

Notice of public meetings for the proposed selection for the draft environmental impact statement. Planning studies for the Upper Gila Water Supply Study have led to the development of six plans, including a "No Federal Actions" plan. It is from this group of plans that a "proposed action" for the draft environmental impact statement will be selected. The purpose of this Public Information Document is to describe the costs and environmental impacts of the six plans that will be included in the September 1986 draft environmental impact statement (EIS), and discuss the evaluation factors critical to plan selection.

Topic category: Hydrology
Keywords: Upper Gila, water supply
County: Southwest New Mexico

Title: Upper Gila Water Supply Study, Recreation Supporting Document

Author: Bureau of Reclamation

Date: 1986

Publication/journal/publisher: Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price: Contact BOR

Web site address:

Document Location: DBS&A SW library

Work initiated by: BOR

Work funded by: BOR

Type of review: Unknown

Location of Work: Southwest New Mexico

Abstract or brief summary:

The objective of the recreational study effort is to analyze the potential of the proposed actions to meet identifiable recreational needs in the area, and to recommend implementation actions and/or strategies. The basic study concept also includes the development of recreational plans to address the opportunities that will be created through implementation of any proposed action. The study area was examined from an environmental, cultural, and aesthetic viewpoint. Conceptual plans for recreation development, including costs were developed and are presented for the potential study features.

Topic category: Hydrology
Keywords: Upper Gila, water supply
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study

Author: Bureau of Reclamation

Date: 1987

Publication/journal/publisher: USDI Bureau of Reclamation, Interim draft

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: water supply, Upper Gila, alternatives
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study, Special Report on Alternatives

Author: Bureau of Reclamation

Date: 1987

Publication/journal/publisher: Lower Colorado Region, Bureau of Reclamation, October 1, 1987

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):

DBS&A Southwest NM Library

Purchase Price: Contact BOR

Web site address:

Document Location: DBS&A SW library

Work initiated by: BOR

Work funded by:

Type of review:

Location of Work: Upper Gila, Arizona/New Mexico

Abstract or brief summary:

The purpose of this document is to provide a summary of the most recent planning information available on the water supply alternatives, their costs, environmental impacts and effects, and related financial aspects. The alternatives presented in this document included: 1) Mangas diversion to Mangas Creek Dam; 2) Mangas diversion to Schoolhouse Dam; 3) Mangas diversion to groundwater recharge/recovery in Silver City wellfields; 4) Top of the Box diversion to Saddlerock Canyon Dam; 5) Top of the Box diversion to groundwater recharge/recovery in Silver City wellfields; and 6) Distribution system. The greatest net benefits are provided by using the existing groundwater rights to meet the municipal needs in the Central Grant County area as long as those rights are adequate to meet the needs. Based on Reclamation's analysis, these rights should be adequate until about the year 2010 when a supplemental supply would be required.

Topic category: Hydrology
Keywords: Upper Gila, water supply
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study, RSA-RSF Water Supply Analyses and Sizing Studies, Draft

Author: Bureau of Reclamation

Date: 1990

Publication/journal/publisher: Bureau of Reclamation, Arizona Projects Office, April 1, 1990

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

DBS&A Southwest NM Library

Purchase Price: Contact BOR

Web site address:

Document Location: DBS&A SW library

Work initiated by: BOR

Work funded by: BOR

Type of review:

Location of Work: Upper Gila, Arizona/New Mexico

Abstract or brief summary:

The purpose of this study was to analyze the impact of variation in downstream flow requirements on the "potentially storable flows" in the Upper Gila River, and to determine the sizing requirements for an offstream storage facility. Sizing analyses were performed to determine the facilities required to develop average annual yields of 3, 6, and 9 KAF for each of the six water supply scenarios. The results from this study indicate that it may be possible to decrease substantially the size of the facilities required to develop the same water supply by using a different approach to computing releases required to satisfy downstream water rights. These results also indicate that if fish flow requirements are included in an operating system that uses the "alternate" approach to satisfying downstream water rights, the size is fairly sensitive to the precise requirements. If the more conservative approach to satisfying downstream water rights concerns is retained, the sizing requirements are relatively insensitive to the fish flows specified here.

Topic category: Hydrology
Keywords: Gila National Forest, the Boiler Fire, wildfire, Black Range
County: Southwest New Mexico

Title: Keepers of the flame

Author: Burke, A.

Date: 2004

Publication/journal/publisher: High Country News 36(21):9-14. November 8, 2004.

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: <http://www.hcn.org/issues/286/15102>

Document Location: HCN web site

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila National Forest

Abstract or brief summary:

High Country News feature article about the Boiler Fire in the Gila National Forest, and the history of and current fire management in the western United States.

Topic category: Hydrology
Keywords: Hydrology, flood, alluvial channel,
geomorphology
County: Southeastern Arizona

Title: Effects of changes in an alluvial channel on the timing, magnitude, and transformation of flood waves, southeastern Arizona

Author: Burkham, D.E.

Date: 1976

Publication/journal/publisher: U.S. Geological Survey, Professional Paper 655-K, 25 p.

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: \$1.75

Web site address: <http://pubs.er.usgs.gov/usgspubs/pp/pp655k>

Document Location: USGS online

Work initiated by: USGS

Work funded by: USGS?

Type of review: Unknown

Location of Work: Southeastern AZ

Abstract or brief summary:

The stream channel of the Gila River in Safford Valley, Ariz., is wide and straight at the end of a period in which high flows have been dominant and is narrow and has a meander pattern at the end of a period in which low flows have been dominant; therefore, the size and meander pattern of the stream channel are regarded as determined by past dominant flows.

Topic category: Hydrology

Keywords: Gila River, flow, phreatophyte

County: Arizona

Title: Flow from small watersheds adjacent to the study reach of the Gila River Phreatophyte Project, Arizona

Author: Burkham, D.E.

Date: 1976

Publication/journal/publisher: U.S. Geological Survey, Professional Paper 655-I, 18 p.

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.):

USGS publication search

Purchase Price: \$1.75

Web site address: <http://pubs.er.usgs.gov/usgspubs/pp/pp655I>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River, Arizona

Abstract or brief summary:

The Gila River in Safford Valley, southeastern Arizona, was the site for a field study of evapotranspiration (Culler and others, 1970). During the period of study, 1963-71, measurements of storm runoff in summer-July through October from tributaries along a 15-mile (24km) reach of the Gila River were required for water budget analyses.

Topic category: Hydrology
Keywords: Dwyer, Grant, Luna, groundwater data,
Mimbres River
County: Grant and Luna Counties

Title: Ground-water data for Dwyer quadrangle, Grant and Luna Counties

Author: Bushman, F.X.

Date: 1955

Publication/journal/publisher: New Mexico Bureau of Mines and Mineral Resources, Socorro, NM,
Circular No. 37, 18 p.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): NMBGMR search

Purchase Price: \$2.50 limited availability

Web site address: <http://geoinfo.nmt.edu/publications/circulars/37/>

Document Location: OSE library; NMBGMR GIC

Work initiated by:

Work funded by:

Type of review:

Location of Work: Dwyer quadrangle, Grant and Luna Counties

Abstract or brief summary:

The purpose of this report on the Dwyer quadrangle in Grant and Luna Counties in southwestern New Mexico is to present a brief discussion of ground-water resources and tabular data on wells and springs as well as a map showing locations. The greater part of the quadrangle is included in the drainage area of the Mimbres River where it is underlain by volcanic rocks, largely rhyolitic tuffs, and minor flows with some water-laid sediments. The Mimbres River flows in a southerly direction through the center of the area. Not all wells within the area appear in the tables, though it is believed that very few have been omitted. Most well owners freely granted permission to measure water levels, depths, production rates, and to collect water samples for chemical analyses.

Topic category: Hydrology
Keywords: well records, water quality, San Agustin Plain, Catron
County: Catron County

Title: Water well records and well water quality in Southwestern San Agustin Plains, Catron County, New Mexico

Author: Bushman, F.X. and C.P. Valentine

Date: 1954

Publication/journal/publisher: New Mexico Bureau of Mines and Mineral Resources, Socorro, NM, Circular No. 26, 20 p.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): NMBGMR search

Purchase Price: Out of print

Web site address:

Document Location: Contact NMBGMR for availability

Work initiated by: NMBGMR

Work funded by: NMBGMR

Type of review:

Location of Work: SW San Agustin Plains, Catron County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Streams, designated use, TMDL
County: Grant County

Title: Analysis of Designated Uses for Stream Reaches

Author: Camarena, A.

Date: 1997

Publication/journal/publisher: Gila National Forest, unpublished document 1/16/1997

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):
as referenced in Gila River WRAS

Purchase Price: Unknown

Web site address: http://www.nmenv.state.nm.us/swqb/Gila_National_Forest-Analysis_of_Designated_Uses_For_Stream_Reaches-01-16-1997.PDF

Document Location: NMED website

Work initiated by: Silver City Surface Water Quality Bureau

Work funded by: USFS?

Type of review: Unknown

Location of Work: Gila National Forest

Abstract or brief summary:

Describes designated uses for stream reaches and threats to these streams within the Gila National Forest. The intent of this analysis is to provide you with local knowledge and supporting references for making changes in designated uses. We are of the opinion that the development of total maximum daily loads of various pollutants is futile if designated uses are not accurately identified.

Topic category: Hydrology
Keywords: Water planning, Catron County, water advisory board
County: Catron County

Title: The Catron County Water Plan

Author: Catron County Water Advisory Board

Date: 1992

Publication/journal/publisher: Presented by the Catron County Water Advisory Board (chairman Howard Hutchinson, secretary Peter MacGill, members Jim Jackson, John Hand, Myrtle Cox, Gene Baca, and John Sinor)

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
DBS&A Library

Purchase Price: Unknown

Web site address:

Document Location: DBS&A Library

Work initiated by:

Work funded by:

Type of review:

Location of Work: Catron County

Abstract or brief summary:

This document is a water plan for Catron County, and includes a discussion of County water ordinances and the legal framework for the water plan, as well as descriptions of the study area, existing water resources, water use, analysis, water conservation and development alternatives.

Topic category: Hydrology
Keywords: Climate variability, snowpack, western New Mexico
County: Western United States

Title: Interannual climate variability and snowpack in the Western United States

Author: Cayan, D.R.

Date: 1996

Publication/journal/publisher: Journal of Climate 9:928-948

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Western United States

Abstract or brief summary:

An important part of the water supply in the western United States is derived from runoff fed by mountain snowmelt. Snow accumulation responds to both precipitation and temperature variations, and forms an interesting climatic index, since it integrates these influences over the entire late fall-spring period.

Topic category: Hydrology
Keywords: Connor Dam, Gila River
County: Grant County

Title: Feasibility Design Data; Conner Dam, Gila River, New Mexico, Upper Gila Water Supply Study, Cap., April 1984

Author: Central Arizona Project

Date: 1984

Publication/journal/publisher: Central Arizona Project

Type of document: Book

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location: Contact BOR

Work initiated by:

Work funded by:

Type of review:

Location of Work: Conner Dam, Gila River, Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila River, Central Arizona Project,
archaeology
County:

Title: Upper Gila water supply study, Central Arizona Project, Class II cultural resource survey

Author: Chapman, R.C., C.W. Gossett, and W.J. Gossett

Date: 1985

Publication/journal/publisher: Albuquerque, N.M. : Deuel and Associates ; with contributions by Peter L. Eidenbach et al.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): UNM Library

Purchase Price:

Web site address:

<http://libros.unm.edu/search~S7/?searchtype=X&searcharg=Upper+Gila+River+Project+&searchscope=7&SORT=R&extended=0&SUBMIT=Search&searchlimits=&searchorigarg=XUpper+Gila+River+Project+Regional+Geology%2C+Geology+of+Alma+Dam+and+Reservoir>

Document Location: UNM Library, BOR Denver Library

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila, Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Water management, water use, history
County: New Mexico

Title: Water in New Mexico: A History of Its Management and Use

Author: Clark, I.G.

Date: 1987

Publication/journal/publisher: Albuquerque: University of New Mexico Press

Type of document: Book

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: \$150

Web site address: <http://www.unmpress.com/Book.php?id=6027>

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Groundwater levels, Mimbres Basin
County: Southwest New Mexico

Title: Groundwater Levels, Mimbres Basin South, New Mexico, 1982-1987

Author: Cruz, R.R.

Date: 1991

Publication/journal/publisher: New Mexico State Engineer Office, Map No. GWL-MBS-82/87

Type of document: Map sheet

Source of document / Search method (phone, internet, library, etc.): DBS&A Library

Purchase Price: Contact OSE

Web site address:

Document Location: DBS&A SW library

Work initiated by: USGS

Work funded by: OSE, USGS

Type of review: Agency Review

Location of Work: Mimbres Basin South, Southwestern New Mexico

Abstract or brief summary:

The map report shows rises and declines in groundwater levels from 1982 to 1987 and the 1987 depth to water. The hydrologic data shown on this map were collected at sites south of Township 22 South in the Mimbres Basin. Four of the five hydrographs show water level rises from 1982 to 1987, but prior to this period indicate long-term water level declines. The hydrograph of the well about 1.5 miles east of Columbus located at T28S, R8W, Section 36.411 shows a water level decline from 1982 to 1987 and a long-term water level rise. 1987 water levels varied from 3.23 to 378.7 ft below land surface. 1982 to 1987 water level changes ranged from a rise of 46.24 ft to a decline of 29.40 feet.

Topic category: Hydrology
Keywords: Evapotranspiration, salt cedar, Gila River, flood, flood plain
County: Graham County, Arizona

Title: Evapotranspiration before and after clearing phreatophytes, Gila River flood plain, Graham County, Arizona

Author: Culler, R.C., R.L. Hanson, R.M. Myrick, R.M. Turner, and F.P. Kipple

Date: 1982

Publication/journal/publisher: U.S. Geological Survey, Professional Paper 655-P, p. P1-P67; 1 plate in pocket

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: \$9.00

Web site address: <http://pubs.er.usgs.gov/usgspubs/pp/pp655P>

Document Location: USGS online

Work initiated by: USGS

Work funded by: USGS

Type of review: Unknown

Location of Work: Gila River, Graham County, Arizona

Abstract or brief summary:

In the arid southwestern States, evapotranspiration from a flood plain can result in a significant reduction in the quantity of water conveyed to downstream users. A large portion of the evapotranspiration is from phreatophytes. The USGS initiated the Gila River Phreatophyte Project in 1962 and consisted of 15 miles of the Gila River flood plain in southeastern Arizona, subdivided into four continuous reaches. Evapotranspiration was evaluated for each reach as the residual in a water-budget equation consisting of 12 components measuring all inflow and outflow of water through each reach. Annual evapotranspiration on the project area averaged 43 inches before clearing. The removal of phreatophytes resulted in a reduction in evapotranspiration averaging 19 inches per year. A logical replacement of phreatophytes would be a cover of forage grasses.

Topic category: Hydrology

Keywords: Vadose zone, infiltration, recharge, environmental site assessment, groundwater contamination, soil contamination, mass transport

County: United States

Title: Estimation of infiltration and recharge for environmental site assessment

Author: Daniel B. Stephens & Associates, Inc.

Date: 1996

Publication/journal/publisher: American Petroleum Institute, Health and Environmental Sciences
Department Publication Number 4643, July 1996

Type of document: printed report, pdf

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: \$94.00

Web site address:

http://global.ihs.com/doc_detail.cfm?currency_code=USD&customer_id=2125412C4E0A&shopping_cart_id=2824282B2B4940244A5A3D58250A&rid=API1&input_doc_number=4643&country_code=US&lang_code=ENGL&item_s_key=00252475&item_key_date=030531&input_doc_number=4643&input_doc_title=

Document Location: API online

Work initiated by: DBS&A

Work funded by:

Type of review: Peer review

Location of Work: United States

Abstract or brief summary:

Chemicals released into the vadose zone, from either accidental spills or wastes managed on the land, may migrate to groundwater, depending upon the nature of the release, design of the waste management facility, properties of the chemical, vadose zone characteristics, and leaching potential. The objective of this report is to provide analysts a sound technical basis for selecting recharge values used in mass transport calculations, such as those required in risk-based corrective action (RBCA) assessments. The scope of the study is twofold: to identify relevant techniques to quantify areally distributed, diffuse, natural recharge and to compile existing data on diffuse recharge throughout the United States.

Topic category: Hydrology
Keywords: Region 4, regional water planning,
Southwest New Mexico
County: Southwest New Mexico

Title: Southwest New Mexico Regional Water Plan

Author: Daniel B. Stephens & Associates, Inc.

Date: 2005

Publication/journal/publisher: Prepared for Southwest New Mexico Regional Water Plan Steering Committee; Fiscal agent, City of Deming, New Mexico

Type of document: printed report, pdf

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Unknown

Web site address: http://www.ose.state.nm.us/isc_regional_plans4.html

Document Location: Available online through OSE

Work initiated by: Southwest New Mexico Regional Water Plan Steering Committee

Work funded by: OSE

Type of review: Agency Review

Location of Work: Southwest NM

Abstract or brief summary:

The Southwest New Mexico Water Planning Region includes Catron, Grant, Hidalgo, and Luna Counties. Regional water planning was initiated in New Mexico in 1987, its primary purposes being (1) to demonstrate an in-state need for water, thereby providing a legal basis for denying an out-of-state appropriation and protecting water resources for New Mexico citizens and region is prepared to meet future water demands. Regional water planning activities have been funded through and overseen by the New Mexico Interstate Stream Commission (ISC).

Key water issues in the Southwest Region include: Declining groundwater levels in the Animas, Mimbres, and Nutt Hockett Basins (central and southern part of the region) due to heavy pumping for municipal and agricultural use; Use of Central Arizona Project water, a renewable resource, to meet current and future needs; protection of natural environment of the Gila and San Francisco Rivers (which supply agricultural demands in the northern to central part of the region) to support recreation uses and endangered species; watershed management in National Forest and private forested lands to guard against catastrophic forest fires, to protect water quality, and potentially to increase yields in key areas; agricultural sector (the largest water use in the region) issues, including agricultural water conservation and mechanisms for short-term leasing of agricultural water rights; and protection of and planning for water resources that are shared with Mexico.

Topic category: Hydrology
Keywords: PER, Upper and Middle Gila Watershed
County: Southwest New Mexico

Title: Preliminary Examination Report Upper and Middle Gila Watershed Arizona-New Mexico

Author: Department of Agriculture

Date: 1938

Publication/journal/publisher: U.S. Dept. of Agriculture

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Municipal water supply, southwestern New Mexico
County: Southwest New Mexico

Title: Municipal Water Supplies and Uses, Southwestern New Mexico

Author: Dinwiddie, G.A., W.A. Mourant, and J.A. Basler

Date: 1966

Publication/journal/publisher: New Mexico State Engineer Office, Santa Fe, New Mexico, Technical Report 29D.

Type of document: Report

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Contact OSE

Web site address: http://www.ose.state.nm.us/publications_library_tchrpts.html

Document Location: DBS&A library

Work initiated by: USGS, OSE

Work funded by: USGS, OSE

Type of review: Agency Review

Location of Work: Southwest New Mexico

Abstract or brief summary:

This report presents the results of an inventory of the water supplies and water systems of communities in southwestern New Mexico that have populations of 100 or more. This report provides information about the water supplies and systems of 44 communities in Catron, Dona Ana, Grant, Hidalgo, Luna, Sierra, and Socorro Counties. Ground-water sources are described, and the chemical quality of water from each source of public supply is given. Logs of municipal wells were included where available.

Topic category: Hydrology Keywords: Gila River County: Southwestern New Mexico

Title: Lessons Learned, Gila River, New Mexico Local Protection Projects

Author: Donegon, D.

Date: 1997

Publication/journal/publisher: U.S. Army Corps of Engineers, Albuquerque, NM

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River, Southwestern New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Silver City, Gabby Hayes well, specifications
County: Grant County

Title: Specifications and Documents for Town of Silver City, New Mexico, Gabby Hayes Well and Transmission Line

Author: Engineers Inc.

Date: April 1986

Publication/journal/publisher: Engineers Inc.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Silver City, NM

Abstract or brief summary:

Topic category: Hydrology

Keywords:

County: Hidalgo County

Title: Bid Documents for the Village of Virden, New Mexico Water Systems Improvements

Author: Engineers Inc.

Date: 1991

Publication/journal/publisher: Engineers Inc. Project No. 90-W-287. December 1991

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location: Contact Engineers, Inc. or Village of Virden

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Water use, water plan
County: Grant County

Title: A 40-Year Water Plan for the City of Bayard, New Mexico

Author: Engineers Inc.

Date: April 1996

Publication/journal/publisher: Engineers Inc. Prepared for the City of Bayard. Silver City, New Mexico.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location: Contact City of Bayard or NM OSE

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Water use, water plan
County: Grant County

Title: A 40-Year Water Plan for the Village of Santa Clara, New Mexico

Author: Engineers Inc.

Date: August 1996

Publication/journal/publisher: Engineers Inc. Prepared for the Village of Santa Clara. Engineers Inc., Silver City, New Mexico.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location: Contact Santa Clara or NM OSE

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Lake Roberts Dam, Grant County
County: Grant County

Title: Lake Roberts Dam Outlet Structure Repairs

Author: Engineers Inc.

Date: February 1998

Publication/journal/publisher: Engineers Inc. Prepared for New Mexico Department of Game & Fish.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Lake Roberts Dam, Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Deming, water production, water transmission
County: Luna County

Title: City of Deming Water Production and Transmission System Improvements, Preliminary Engineering Report

Author: Engineers Inc.

Date: May 2002

Publication/journal/publisher: Engineers Inc. Prepared for City of Deming. New Mexico.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location: Contact City of Deming

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Santa Clara, water system, wastewater
County: Grant County

Title: Village of Santa Clara Water and Wastewater System Improvements

Author: Engineers Inc.

Date: June 2003

Publication/journal/publisher: Engineers Inc. Prepared for the Village of Santa Clara. New Mexico,
Project Number: SCLO202C.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Santa Clara

Abstract or brief summary:

Topic category: Hydrology
Keywords: Climate change, New Mexico
County: New Mexico

Title: Implications of Recent Climate Change on Conservation Priorities in New Mexico

Author: Enquist, C. and D. Gori

Date: 2008

Publication/journal/publisher: NM Conservation.org

Type of document: Online publication

Source of document / Search method (phone, internet, library, etc.):

Adrian T. Oglesby @tnc.org

Purchase Price:

Web site address: http://nmconservation.org/dl/NMClimateChange_report1_527.pdf

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

This report addresses the implications of recent changes in climate on previously identified conservation priorities in New Mexico.

Topic category: Hydrology
Keywords: Climate, drought, water resources management
County: New Mexico

Title: Conservation Implications of Emerging Moisture Stress due to Recent Climate Change in New Mexico

Author: Enquist, C., E.H. Girvetz, and D. Gori

Date: 2007

Publication/journal/publisher: NM Conservation.org

Type of document: Online publication

Source of document / Search method (phone, internet, library, etc.):
Adrian T. Oglesby @tnc.org

Purchase Price: Unknown

Web site address: http://nmconservation.org/dl/CC_report2_final.pdf

Document Location: On internet

Work initiated by: Nature Conservancy

Work funded by: Nature Conservancy

Type of review: Unknown

Location of Work: New Mexico

Abstract or brief summary:

Here, we employ a newly available analytical tool, the ClimateWizard toolbox, to map and analyze long-term trends in climate water deficit (e.g., moisture stress) summarized by USGS HUC-8 watersheds for New Mexico (Girvetz et al. 2008). We also identify recent trends in snowpack and the timing of peak-runoff from streams to further examine the physical implications of regional climate change. Finally, to evaluate the conservation implications of these trends, we relate climate water deficit in watersheds to the number of species with conservation status occurring within them.

Topic category: Hydrology
Keywords: San Francisco River, aquatic life, impairment
County: Southwestern NM

Title: Biological Assessment of the San Francisco River and Selected Tributaries in Southwestern New Mexico.

Author: EPA

Date: 1999

Publication/journal/publisher: U.S. EPA

Type of document: Electronic (PDF)

Source of document / Search method (phone, internet, library, etc.): In project file, online

Purchase Price: Unknown

Web site address: <http://www.ose.state.nm.us/PDF/ISC/BasinsPrograms/GilaSanFrancisco/USEPA-1999-BiologicalAssessment-SanFranciscoRiver.pdf>

Document Location: DBS&A project file; online

Work initiated by: NMED

Work funded by: USEPA?

Type of review: Agency Review

Location of Work: San Francisco River

Abstract or brief summary:

The purpose of the study was to determine whether selected reaches of the San Francisco River and its tributaries exhibit aquatic life use impairment, based on macroinvertebrate community integrity. Discusses various levels of impairment to selected reaches of the river.

Topic category: Hydrology
Keywords: Hydrology, San Agustin Plains
County: Catron County

Title: Preliminary Hydrologic Report, San Agustin Plains

Author: Everheart, J.T.

Date: 1978

Publication/journal/publisher: Office of the State Engineer Preliminary Hydrologic Report

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: http://www.ose.state.nm.us/publications_library_hydrologyrpts.html

Document Location: OSE Library

Work initiated by: OSE

Work funded by: OSE

Type of review: Unknown

Location of Work: San Agustin Plains

Abstract or brief summary:

This report was written to fulfill administrative requirements for State Engineer action on applications to appropriate groundwater within declared groundwater basins, specifically pending applications in the San Agustin Plains area (file numbers RG-28322 and RG-28324, RG-27621 and RG-27622, with each set of applications calling for the irrigation of 320 acres). The San Agustin Basin is a closed basin, including an area of approximately 2,000 square miles. The writer obtained water level data on approximately 156 wells in the basin, and developed a water level contour map in an effort to define the flow pattern on the southern end of the Plains. The data collected indicated a regional groundwater system with water flowing southeastward with a possible south to southwest component to flow. The slope of the water table in the San Agustin system is approximately 50 feet per mile in a southeasterly direction. A computer model was used to estimate long term effects of pumping. Model simulations showed the effects at 20 year intervals beginning at 20 years and continuing through 200 years. The assumptions and computations based on the available data lead to the conclusion that the proposed appropriations will not be detrimental to existing water rights.

Topic category: Hydrology
Keywords: pinyon-juniper, treatment, historic perspective
County:

Title: Impacts of Pinyon-Juniper Treatments on Water Yields: A Historic Perspective

Author: Ffolliott, P.F. and C. Stropki

Date: 2008

Publication/journal/publisher: USDA Forest Service Proceedings TMTS-P51

Type of document:

Source of document / Search method (phone, internet, library, etc.): David Menzie, NMED

Purchase Price:

Web site address:

Document Location: http://www.fs.fed.us/rm/pubs/rmrs_p051/rmrs_p051_059_064.pdf

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Pinyon-juniper woodlands are not normally considered a high water-yielding type largely because of the low precipitation amounts and high evapotranspiration rates encountered. Nevertheless, a recommendation was made in the 1950s to evaluate the effectiveness of increasing water yields by converting pinyon-juniper overstories to herbaceous covers.

Topic category: Hydrology
Keywords: Upper Gila River, water supply
County: Grant County

Title: Fish and Wildlife Coordination Act Supplemental Draft Report, Upper Gila Water Supply Study, Grant County, NM

Author: Fish and Wildlife Service

Date: 1987

Publication/journal/publisher: Fish & Wildlife Service

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location: Contact BOR

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila River, Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Gila River, instream flow, water supply
County: Southwest New Mexico

Title: Upper Gila Water Supply Study New Mexico, Instream Flow Incremental Methodology, Analysis of the Gila River, Final

Author: U.S. Fish and Wildlife Service

Date: 1987

Publication/journal/publisher: Fish & Wildlife Service. Prepared for the Bureau of Reclamation.

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location: Contact BOR

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River, Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila, water supply, Grant
County: Grant County

Title: Upper Gila water supply study, Grant County, New Mexico

Author: Fish and Wildlife Service

Date: 1987

Publication/journal/publisher: U.S. Fish and Wildlife Service, Fish and Wildlife Coordination Act
Supplemental Draft Report. Albuquerque, NM. 52 pp.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila River, water supply
County: Grant County

Title: Fish and Wildlife Coordination Act Supplemental Draft Report, Upper Gila Water Supply Study, Grant County, NM

Author: Fish and Wildlife Service

Date: 1998

Publication/journal/publisher: Fish & Wildlife Service. Prepared for the Bureau of Reclamation.

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location: Contact BOR

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila River, Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Colorado River, surface water supply
County: Colorado River Basin

Title: Surface water supply of the United States, 1912, Part IX, Colorado River basin

Author: Follansbee, R., E.A. Porter, and H.D. Padgett

Date: 1914

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 329, 238 p., ill., 24 cm.,
Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp329>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin

Abstract or brief summary:

This volume is one of a series of 12 reports presenting results of measurements of flow made on certain streams in the United States during the calendar year 1912.

Topic category: Hydrology
Keywords: Colorado River, surface water supply
County: Colorado River Basin

Title: Surface water supply of the United States, 1911, Part IX, Colorado River basin

Author: Follansbee, R., W.B. Freeman, and G.C. Baldwin

Date: 1914

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 309, 266 p., map, 23 cm, Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp309>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin, NM

Abstract or brief summary:

This volume is Part IX of a series of 12 reports presenting results of measurements of flow made on certain streams in the United States during the calendar year 1911.

Topic category: Hydrology
Keywords: Hooker Dam, Gila National Forest
County: Southwest New Mexico

Title: Multiple Use Impact Survey Report, Hooker Dam and Reservoir Project, Gila National Forest

Author: Forest Service

Date: 1968

Publication/journal/publisher: U.S. Forest Service

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila National Forest, Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Gila River, Gila National Forest
County: Southwest New Mexico

Title: Gila River Drainage 58 Exhibit: U.S. Exhibit No. 2720 B: Gila National Forest, New Mexico, Gila River drainage: Existing uses

Author: Forest Service

Date: Undated

Publication/journal/publisher: U.S. Forest Service, Unpublished spreadsheet file provided by Carolyn Koury, Gila National Forest, to Wayne Ericson, Engineers Inc., June 18, 2003.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River, Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Mimbres Basin
County: Southwestern New Mexico

Title: Mimbres 1986 Stipulation

Author: Forest Service

Date: Undated

Publication/journal/publisher: U.S. Forest Service, Unpublished spreadsheet file provided by Carolyn Koury, Gila National Forest, to Wayne Ericson, Engineers Inc., June 18, 2003.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Mimbres Basin, Southwestern New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Mimbres Basin
County: Southwestern New Mexico

Title: Mimbres Valley Adjudication

Author: Forest Service

Date: Undated

Publication/journal/publisher: U.S. Forest Service, Unpublished spreadsheet file provided by Carolyn Koury, Gila National Forest, to Wayne Ericson, Engineers Inc., June 18, 2003.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Mimbres Valley, Southwestern New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Gila river, San Francisco river
County: Southwestern NM

Title: Wells within G-SF watershed

Author: Forest Service

Date: Undated

Publication/journal/publisher: U.S. Forest Service, Unpublished spreadsheet file provided by Carolyn Koury, Gila National Forest, to Wayne Ericson, Engineers Inc., June 18, 2003.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila and San Francisco watersheds, Southwestern NM

Abstract or brief summary:

Topic category: Hydrology

Keywords: Gila River

County:

Title: Documentation of Gila River Study Plan Meeting

Author: Forest Service, Gila National Forest

Date: 1996

Publication/journal/publisher: US Forest Service, Gila National Forest, Unpublished memo.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location: Contact the OSE

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Fort West Ditch, water rights
County:

Title: Declaration of Existing Right Duly Acquired and Confirmed to the Use of the Public Waters of New Mexico: Fort West Ditch

Author: French, J.A.

Date: 1918

Publication/journal/publisher: State Engineer of New Mexico (courtesy Linda Stailey), Gila, NM

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Unknown

Web site address: http://www.ose.state.nm.us/isc_colorado_gila_sanfran_TS_RefGSF_Hydrology.html

Document Location: Contact the OSE

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Maldonado Ditch, water rights
County:

Title: Declaration of Existing Right Duly Acquired and Confirmed to the Use of the Public Waters of New Mexico: The Maldonado Ditch

Author: French, J.A.

Date: 1918

Publication/journal/publisher: State Engineer of New Mexico

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Unknown

Web site address: http://www.ose.state.nm.us/isc_colorado_gila_sanfran_TS_RefGSF_Hydrology.html

Document Location: Contact the OSE

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Exxon, Gila Valley, water rights
County: Southwestern NM

Title: Update: Exxon and Gila Valley Water Rights

Author: Fridinger, J.

Date: 2003

Publication/journal/publisher: Carapace, Vol. 7, p. 8. Gila, NM: Upper Gila Watershed Association.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila Valley, southwestern NM

Abstract or brief summary:

Topic category: Hydrology
Keywords: Watershed, ponderosa pine, Colorado Front Range
County:

Title: Watershed management problems and opportunities for the Colorado Front Range ponderosa pine zone: The status of our knowledge

Author: Gary, H.L.

Date: 1975

Publication/journal/publisher: Research Paper RM-139, USDA Forest Service. 32p.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Barite, Luna County, hydrologic assessment, Mimbres River watershed
County: Luna County

Title: Hydrologic assessment of Barite of America Plant site, Luna County, New Mexico

Author: Geohydrology Associates, Inc.

Date: 1980

Publication/journal/publisher: Geohydrology Associates, Inc. Albuquerque, New Mexico.

Prepared for Barite of America, Deming, New Mexico, September 1980.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): Salsa search

Purchase Price:

Web site address:

<http://salsa.stlib.state.nm.us/ipac20/ipac.jsp?session=S239930108JA8.1284750&profile=ose&uri=full%3D3100001%7E%21679498%7E%2121&source=~!marquis&ri=6&aspect=advanced&menu=search&&ipp=20&spp=20&term=Luna+County&index=.GW&uindex=&oper=&term=Luna+County&index=.SW&uindex=&oper=&term=Luna+County&index=.TW&uindex=&aspect=advanced&menu=search&ri=6#focus>

Document Location: OSE Library

Work initiated by:

Work funded by: Barite of America

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Water resources, Grant County
County: Grant County

Title: Water-Resources Appraisal for East-Central Grant County, New Mexico

Author: Geohydrology Associates, Inc.

Date: 1980

Publication/journal/publisher: Prepared for the Southwest New Mexico Council of Governments, Silver City, New Mexico. January 1980

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Central Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Silver City, 40-year water plan
County:

Title: A 40-Year Water Plan for the Town of Silver City, New Mexico

Author: Geohydrology Associates, Inc.

Date: 1993

Publication/journal/publisher: Prepared for the Town of Silver City, New Mexico

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Lordsburg, water use, water plan
County: Hidalgo County

Title: A 40-Year Water Plan for the City of Lordsburg, New Mexico

Author: Gordon, N.

Date: December 1994

Publication/journal/publisher: Prepared for the City of Lordsburg. Engineers Inc., Silver City, New Mexico.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location: Contact City of Lordsburg or NM OSE

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: water conservation, Silver City
County: Grant County

Title: Water Conservation Plan for the Town of Silver City, New Mexico

Author: Gordon, N.

Date: February 1996

Publication/journal/publisher: Engineers, Inc. P.O. Box 5080, Silver City, New Mexico, Final Report.
Prepared for the Town of Silver City. Engineers Inc.

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
DBS&A Southwest NM Library

Purchase Price: Contact Engineers Inc.

Web site address:

Document Location: DBS&A SW Library

Work initiated by: Engineers Inc.

Work funded by: Silver City

Type of review: Peer review

Location of Work: Silver City

Abstract or brief summary:

Includes sections on the wisdom of water conservation, description of Silver City's water system, update of data from 40-year plan, February and July water use statistics, water conservation survey, unaccounted and unbilled water use, and recommendations. Summarized recommendation include: 1) increase the number of meters; 2) start a meter replacement program; 3) reduce leaks, water wasting and illegal water use; 4) initiate an education/assistance program; 5) implement water conservation practices at city and school facilities; 6) carefully phase in higher water rates; and 7) perform a leak detection study.

Topic category: Hydrology
Keywords: Reserve, water use, water plan
County: Catron County

Title: A 40-Year Water Plan for the Village of Reserve, New Mexico, Final Report

Author: Gordon, N.

Date: March 1997

Publication/journal/publisher: AquaTech, Prepared for the Village of Reserve, Under Subcontract to Engineers Inc.

Type of document: Report

Source of document / Search method (phone, internet, library, etc.): DBS&A Library

Purchase Price: Unknown

Web site address:

Document Location: Contact Reserve or NM OSE; DBS&A file

Work initiated by: Village of Reserve

Work funded by:

Type of review: Agency review

Location of Work: Village of Reserve, NM

Abstract or brief summary:

This document is a 40-year water plan for the Village of Reserve. It provides an overview of the existing water system, water resources, water production and use, projections of population and water use, comparison of projected demand and available supply, and recommendations.

Topic category: Hydrology
Keywords: Upper Gila Ditch, irrigation diversions
County: Grant County

Title: Options for Irrigation Diversion: Upper Gila Ditch, Cliff/Gila Valley, New Mexico

Author: Gordon, N.

Date: 1997

Publication/journal/publisher: Unpublished report prepared for The Nature Conservancy of New Mexico

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Silver City, water supply, history, shortage
County: Grant County

Title: Silver City's Water Supply: A History of Shortages

Author: Gordon, N.

Date: 2002

Publication/journal/publisher: Desert Exposure, May 2002, p. 12-13

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Silver City, NM

Abstract or brief summary:

Topic category: Hydrology
Keywords: Water use, water plan, Silver City
County: Grant County

Title: A 40-Year Water Plan for the Town of Silver City, New Mexico

Author: Gordon, N., G. Equeda, and T. Kelly

Date: October 1993

Publication/journal/publisher: Prepared for the Town of Silver City. Engineers Inc. and Geohydrology Associates.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location: Contact Silver City or NM OSE

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Water plan, Silver City
County: Grant County

Title: Water System Master Plan for the Town of Silver City, New Mexico, Final Report

Author: Gordon, N., J. Gendron, and J. Johnson-Barraza

Date: July 1997

Publication/journal/publisher: Prepared for the Town of Silver City.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Silver City

Abstract or brief summary:

Topic category: Hydrology
Keywords: Ft. Bayard, precipitation, Grant County
County: Grant County

Title: Ft. Bayard precipitation records

Author: Grant Soil and Water Conservation District

Date: Undated

Publication/journal/publisher: Grant Soil and Water Conservation District. Prepared in cooperation with Black Range RC&D.

Type of document: Printed table

Source of document / Search method (phone, internet, library, etc.): DBS&A Southwest NM Library

Purchase Price: NA

Web site address:

Document Location: DBS&A SW library

Work initiated by: unknown

Work funded by: unknown

Type of review: unknown

Location of Work: Ft. Bayard, Grant County

Abstract or brief summary:

Monthly and annual precipitation amounts for Ft. Bayard from 1867 through 1992. Also provides monthly averages for the same period, and annual high and low temperatures for 1949 through 1992. 125 years of record, elevation 6,142 ft, average rainfall 15.63 inches.

Topic category: Hydrology
Keywords: Watershed protection, Upper Gila Valley, Grant County, flood protection
County: Grant County

Title: Work Plan for Watershed Protection and Flood Prevention, Upper Gila Valley Arroyos Watershed No. 1; Grant County, NM

Author: Grant Soil Conservation District, and Upper Gila Watershed District

Date: 1959

Publication/journal/publisher: U.S. Department of Agriculture, Soil Conservation Service, Fort Worth, Texas, 34 p.

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet (from WRRRI library search)

Purchase Price:

Web site address:

Document Location: WRRRI Library at New Mexico State University

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila Valley Arroyos watershed, Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Gila River, hydrology, Arizona Water Settlements Act, CUFA, terms of diversion, environmental flow
County: Gila Basin, Southwestern NM

Title: A Collaborative Method for Assessing Environmental Flows on the Upper Gila River: Justification and Need (Draft)

Author: Haney, J.

Date: 2006

Publication/journal/publisher: The Nature Conservancy, 1510 E. Fort Lowell Road, Tucson, Arizona

Type of document: Electronic file (PDF)

Source of document / Search method (phone, internet, library, etc.): ISC provided electronic draft

Purchase Price: NA

Web site address:

Document Location: DBS&A network

Work initiated by: The Nature Conservancy

Work funded by:

Type of review:

Location of Work: Gila River Basin

Abstract or brief summary:

The subject of this paper pertains to the Arizona Water Settlements Act of 2004, which provides money to conduct studies and to develop a water supply project for Southwest New Mexico, and the New Mexico Consumptive Use and Forebearance Agreement which details New Mexico's right to develop and consumptively use 140,000 acre-feet of water from the Gila Basin in any ten year period. This paper examines the maximum Gila River water diversion that is possible without impinging on downstream water rights, and recommends an environmental flow approach for identifying the flow needs of the upper Gila River.

Topic category: Hydrology
Keywords: Groundwater modeling, water rights,
Mimbres Basin
County: Southwestern NM

Title: Use of Regional Ground-Water Flow Model for Water Rights Administration in a Southwest Alluvial Basin

Author: Hathaway, D.L.

Date: 1987

Publication/journal/publisher: State Engineer Office, Santa Fe, New Mexico

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Contact OSE

Web site address: http://www.ose.state.nm.us/publications_library_hydrologyrpts.html

Document Location: DBS&A SW library

Work initiated by: OSE

Work funded by: OSE

Type of review: Unknown

Location of Work: Southwestern New Mexico

Abstract or brief summary:

Ground-water use in the Mimbres Basin, a southwest alluvial basin with a varied hydrogeologic environment, is regulated with the aid of a finite difference numerical ground-water flow model. The model has been used, in conjunction with empirical data, to prepare a blockwise inventory of projected water levels and decline rates for an administratively defined planning period. The model is used to estimate effects of proposed appropriations and to update projected values when applications are approved or existing water rights are cancelled or transferred. The use of the ground-water flow model facilitates basin management by providing reasonable approximations to aquifer hydraulics in a heterogenous hydrogeologic environment, as well as saving computational time in maintaining a ground-water inventory.

Topic category: Hydrology

Keywords: Water supply, Silver City, aquifer storage and recovery, Conner Reservoir, Gila River

County: Grant County

Title: Evaluation of a Municipal Water Supply for the Silver City Area Using Ground Water Recharge of Water from Conner Reservoir on the Gila River

Author: Hernandez, J.W., W.G. Hines, and F.D. Trauger

Date: August 1984

Publication/journal/publisher: Prepared for Town of Silver City and New Mexico Interstate Stream Commission.

Type of document: printed report

Source of document / Search method (phone, internet, library, etc.): Salsa search

Purchase Price: Contact OSE

Web site address:

<http://salsa.stlib.state.nm.us/ipac20/ipac.jsp?session=124051P729O50.1590646&menu=search&aspect=advanced&npp=10&ipp=20&spp=20&profile=ose&ri=1&source=%7E%21marquis&index=.GW&term=Evaluation+of+a+Municipal+Water+Supply+for+the+Silver+City+Area+Using+Ground+Water+Recharge+of+Water+from+Conner+Reservoir+on+the+Gila+River&aspect=advanced&x=16&y=15#focus>

Document Location: OSE Library

Work initiated by:

Work funded by: Town of Silver City, NM ISC

Type of review: Agency Review

Location of Work: Silver City area

Abstract or brief summary:

Topic category: Hydrology
Keywords: Vegetation management, Colorado River Basin
County: Colorado River Basin

Title: Managing vegetation to increase flow in the Colorado River Basin

Author: Hibbert, A.R.

Date: 1979

Publication/journal/publisher: General Technical Report RM-66, USDA Forest Service. 27 p.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin

Abstract or brief summary:

Topic category: Hydrology
Keywords: Stream measurements, Colorado River drainage, Yuma
County: Colorado River Basin

Title: Report of progress of stream measurements for the calendar year 1905, Part XI, Colorado River drainage above Yuma

Author: Hinderlider, M.C. and G.L. Swendsen

Date: 1906

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 175, 194 p., ill., map, 23 cm, Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp175>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin

Abstract or brief summary:

Southern New Castle County has a land area of 190 square miles in northcentral Delaware. It is predominantly a rural area with a population of about 9,500 people who are engaged chiefly in agriculture. By and large, the residents are dependent upon ground water as a source of potable water. This investigation was made to provide knowledge of the availability and quality of the ground-water supply to aid future development. The climate, surface features, and geology of the area are favorable for the occurrence of ground water.

Topic category: Hydrology

Keywords: Stream measurements, Colorado River,
Great Basin drainage

County: Colorado River Basin

Title: Report of progress of stream measurements for the calendar year 1904, Part X, Colorado River and Great Basin drainage

Author: Hinderlider, M.C., G.L. Swendsen, and A.E. Chandler

Date: 1905

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 133, 384 p., 1 folded leaf of plate, ill., map, 23 cm, Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp133>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin

Abstract or brief summary:

The hydrographic work of the United States Geological Survey includes the collection of facts concerning, and the study of conditions affecting the behavior of water from the time it reaches the earth as rain or snow until it joins the oceans or great navigable rivers.

Topic category: Hydrology
Keywords: Gila River, regional water organization,
Grant County
County: Grant County

Title: Evaluation of non-municipal demand for Gila River water and recommendations for a regional water organization in central Grant County, New Mexico

Author: Hines, W.G.

Date: 1986

Publication/journal/publisher: Weiss-Hines Engineering, Inc., Albuquerque, New Mexico.

Prepared for Town of Silver City and New Mexico Interstate Stream Commission. May 1986

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): Salsa search

Purchase Price: Contact OSE

Web site address:

<http://salsa.stlib.state.nm.us/ipac20/ipac.jsp?session=O23F92393101W.1279270&profile=ose&source=~!marquis&view=subscriptionssummary&uri=full=3100001~!679427~!0&ri=2&aspect=advanced&menu=search&ipp=20&spp=20&staffonly=&term=Gila+River&index=.GW&uindex=&oper=&term=Grant+County&index=.TW&uindex=&aspect=advanced&menu=search&ri=2#focus>

Document Location: OSE Library

Work initiated by: Weiss-Hines Engineering, Inc.

Work funded by: Town of Silver City, NM ISC

Type of review: Agency Review

Location of Work: Grant County

Abstract or brief summary:

The document evaluates non-municipal demand for Gila River water and makes recommendations for a regional water organization in central Grant County. The intent of the report was to evaluate two key issues in more detail: 1) the future demand for Gila River water; and 2) the formation of a contracting entity and/or regional water utility.

Topic category: Hydrology
Keywords: water resources, Grant County
County: Grant County

Title: Water as a Resource in Grant County New Mexico

Author: Hinrichs, J.

Date: 1961

Publication/journal/publisher: New Mexico State University Cooperative Extension Service, Las Cruces, 15 p.

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet (from WRRRI library search)

Purchase Price:

Web site address:

Document Location: WRRRI Library at New Mexico State University

Work initiated by:

Work funded by:

Type of review:

Location of Work: Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Decadal scale changes, discharge, Gila River
County: Southwest New Mexico

Title: River responses to decadal-scale changes in discharge regime: the Gila River, SE Arizona

Author: Hooke, J.M.

Date: 1996

Publication/journal/publisher: In J. Branson, A. G. Brown and K. J. Gregory, editors, Global continental changes: the context of palaeohydrology. Geological Society Special Publication No. 115, The Geological Society, London, Pages 191-204.

Type of document: Journal Article

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River

Abstract or brief summary:

Changes of the Gila River channel since 1920 have been investigated, and in particular, the last three relatively wet decades have been compared with the drier ones of the 1920s to 1950s. The research has shown that the morphological response to high flow events depends on sequences of events and critical combinations of conditions.

Topic category: Hydrology
Keywords: Hooker Dam
County: Southwestern New Mexico

Title: Letter to Regional Planning Officer, Bureau of Reclamation re: Hooker Dam project

Author: Hoppe, R.A.

Date: 1981

Publication/journal/publisher: October 1981

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Hooker Dam, Southwestern New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Lake Roberts
County: Grant County

Title: Engineering study for Lake Roberts rehabilitation

Author: Isaacson & Arfman, P.A.

Date: 1988

Publication/journal/publisher: Appendix A in Engineers Inc., 1998, Lake Roberts Dam Outlet structure repairs. Prepared for State of New Mexico Department of Game and Fish, Contract No. 98-516-52. February 1998.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):

Purchase Price: Unknown

Web site address:

Document Location: Contact NM Game & Fish or Engineers, Inc.

Work initiated by:

Work funded by:

Type of review:

Location of Work: Lake Roberts, Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Gila National Forest, pinon-juniper, grassland
County: Southwest New Mexico

Title: Hydrologic responses to fuelwood harvest and slash disposal on a pinon-juniper dominated grassland site in the Gila National Forest, New Mexico

Author: Javed, N.

Date: 1991

Publication/journal/publisher: Ph.D. diss. New Mexico State Univ., Las Cruces

Type of document: Book

Source of document / Search method (phone, internet, library, etc.):
Interlibrary loan-UNM microfilm

Purchase Price:

Web site address:

Document Location: New Mexico State University Library

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila National Forest, Southwestern NM

Abstract or brief summary:

Tree harvesting and logging are routine activities for sale proceeds of fuelwood in the pinyon-juniper woodlands. These operations adversely affect the hydrologic characteristics of the sites if not carefully carried out using scientifically oriented methods. In order to quantify the important hydrologic variables as a consequence of type conversion from pinyon-juniper to grasslands, a long term study was initiated during 1986 on a pinyon-juniper invaded grassland in the Black Range in southwestern New Mexico.

Topic category: Hydrology

Keywords: River surveys

County:

Title: Index to river surveys made by the United States Geological Survey and other agencies revised to July 1, 1947

Author: Jones, B.E. and R.O. Helland

Date: 1948

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 995, 145 p. ;23 cm., Washington, D.C.: US Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp995>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

The descriptive list of surveys of rivers in the United States issued by the United States Geological Survey in 1926 as Water-Supply Paper 55S comprised surveys by the Geological Survey and other Federal bureaus and by State, semiofficial, and private agencies.

Topic category: Hydrology
Keywords: water resources, Silver City
County: Grant County

Title: Water Resources Appraisal of the Silver City Area, New Mexico

Author: Koopman, F.C., F.D. Trauger, and J.A. Basler

Date: 1969

Publication/journal/publisher: New Mexico State Engineer, Santa Fe, New Mexico. Technical Report 36. Prepared in cooperation with the U.S. Geological Survey.

Type of document: Report

Source of document / Search method (phone, internet, library, etc.): Office of the State Engineer webpage

Purchase Price: Contact OSE

Web site address: http://www.ose.state.nm.us/publications_library_techrpts.html

Document Location: OSE Library, DBS&A library

Work initiated by: Silver City, USGS

Work funded by: OSE, USGS

Type of review: Unknown

Location of Work: Silver City area

Abstract or brief summary:

Silver City requested that the USGS investigate the town water supply in order to make a quantitative appraisal of its adequacy for present and future needs, and to make a qualitative evaluation of potential areas for future development of additional supplies of ground water for Silver City and for nearby communities. The efficiency of the wells in the present Silver City well fields was determined by pumping tests and by an evaluation of long-term water-level declines and pumpage records. Other well fields were evaluated by comparing well performances, by analysis of water-level fluctuations, and by relating well-field performance to geologic conditions. The investigation of the potential for future development was limited to the vicinity of the present well fields and to the drainage basin of San Vicente Arroyo.

Topic category: Hydrology
Keywords: Irrigation, cropland acreage, New Mexico
County: New Mexico

Title: Sources of irrigation water and cropland acreages in New Mexico, 1994-1996

Author: Lansford, R.R., D. Lucero, C. Gore, W.W. Wilken, R. Nedom, A.A. Lucero, and J. Schultz

Date: 1997

Publication/journal/publisher: Technical Report 29, Agricultural Experiment Station, Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University, Las Cruces, New Mexico. October 1997.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Water sources, irrigation, dry cropland, New Mexico
County: New Mexico

Title: Sources of irrigated water and irrigated and dry cropland acreages in New Mexico, by county, 1988-90

Author: Lansford, R.R., L. Dominguez, C. Gore, J. Hand, F.G. West, B. Wilson, and T.M. Cohen

Date: 1991

Publication/journal/publisher: Technical Report 4, Agricultural Experiment Station, Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University, Las Cruces, New Mexico. October 1991.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Irrigation, cropland acreage, New Mexico
County: New Mexico

Title: Sources of irrigation water and irrigated and dry cropland acreages in New Mexico, by county, 1990-92

Author: Lansford, R.R., L. Dominguez, C. Gore, W.W. Wilken, B. Wilson, and T.L. Franz

Date: 1993

Publication/journal/publisher: Technical Report 16, Agricultural Experiment Station, Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University, Las Cruces, New Mexico. October 1993.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Irrigation, cropland acreage, New Mexico
County: New Mexico

Title: Sources of irrigation water and irrigated and dry cropland acreages in New Mexico, by county, 1988-1991

Author: Lansford, R.R., L. Dominguez, C. Gore, W.W. Wilken, F.G. West, B. Wilson, and S.L. Runyon

Date: 1992

Publication/journal/publisher: Technical Report 13, Agricultural Experiment Station, Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University, Las Cruces, New Mexico. October 1992.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Irrigation, water source, cropland acreage
County: New Mexico

Title: Irrigation water sources and cropland acreages in New Mexico, 1993-1995

Author: Lansford, R.R., T.L. Franz, C. Gore, W.W. Wilken, and A.A. Lucero

Date: 1996

Publication/journal/publisher: Technical Report 27, Agricultural Experiment Station, Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University, Las Cruces, New Mexico. October 1996.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):
DBS&A Southwest NM Library

Purchase Price: Unknown

Web site address: NA

Document Location: contact OSE

Work initiated by: OSE

Work funded by: OSE

Type of review: Unknown

Location of Work: New Mexico

Abstract or brief summary:

Irrigation water sources and cropland acreages in New Mexico tabulated for 1993, 1994, and 1995.

Topic category: Hydrology
Keywords: Water sources, irrigation, cropland, New Mexico
County: New Mexico

Title: Sources of irrigation water and cropland acreages in New Mexico, 1992-1994

Author: Lansford, R.R., T.L. Franz, C. Gore, W.W. Wilken, B. Wilson, and C.S. Coburn

Date: 1995

Publication/journal/publisher: Technical Report 22, Agricultural Experiment Station, Cooperative Extension Service, College of Agriculture and Home Economics, New Mexico State University, Las Cruces, New Mexico. October 1995.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Phelps Dodge, Tyrone, water supply
County: Grant County

Title: Phelps Dodge Corporation, Tyrone Branch water supply completion work, Specification no. 4004-C8

Author: Leeds, Hill and Jewett Inc.

Date: 1968

Publication/journal/publisher: Leeds, Hill and Jewett Inc., Consulting Engineers (LHJ). December 1968

Type of document: Engineering drawings

Source of document / Search method (phone, internet, library, etc.):
DBS&A Southwest NM Library

Purchase Price:

Web site address:

Document Location: DBS&A SW library

Work initiated by: Leeds, Hill, and Jewett Inc.

Work funded by: Phelps Dodge Corporation

Type of review: Peer review

Location of Work: Mangas Cree, Grant County

Abstract or brief summary:

Completion Work map shows vicinity and key. 2 sheets show the schematic diagram of operation and control.

Topic category: Hydrology
Keywords: Water planning, Deming, Mimbres
Underground Water Basin
County: Luna County

Title: City of Deming, New Mexico, 40-Year Water Plan

Author: Leedshill-Herkenhoff, Inc. and John Shomaker & Associates, Inc.

Date: 1997

Publication/journal/publisher: LH Project No. 96042.13/0100, December 1997

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):

Purchase Price: Unknown

Web site address: Unknown

Document Location: DBS&A project file

Work initiated by: OSE

Work funded by: OSE

Type of review: Agency Review

Location of Work: Deming

Abstract or brief summary:

This report recognizes the individuals and groups that contributed to its development and summarizes previous water planning efforts in the region. This document developed general background data on the City's water system. The Mimbres Underground Water Basin is the City's only source of water. This document discusses water supply, water demand, and water plan alternatives for the City of Deming.

Topic category: Hydrology
Keywords: Pacific Decadal Oscillation, New Mexico, precipitation
County: New Mexico

Title: Pacific decadal oscillation and New Mexico precipitation

Author: Liles, C.A.

Date: 2003

Publication/journal/publisher: National Weather Service

Type of document: Electronic file (HTML)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Free

Web site address: http://www.srh.noaa.gov/abq/feature/PDO_NM.htm

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

At least some portion of New Mexico has experienced severe to extreme drought (as described by the Palmer Drought Severity Index) during 56 of the past 102 years. The relationship between the PDO and New Mexico precipitation was studied in several ways. Data sets for the PDO were obtained from the University of Washington web page. An annual PDO average was calculated for each year from 1931 through 1997. Average precipitation for each of eight climate divisions was calculated, for each of those years. There is a strong relationship between the Pacific Decadal Oscillation and precipitation in New Mexico. From tables 1 and 2, the dry years outnumbered wet years nearly four to one (55 to 15 percent of the years) during the last cold phase of the cycle (1944-1976). During the warm side of the cycle (1977-1997), wet years outnumbered dry ones three to one (43 to 14 percent).

Topic category: Hydrology
Keywords: Mimbres basin, hydrologic data, China Draw
County: Grant and Luna Counties

Title: Hydrologic Investigation of China Draw, Mimbres Basin, New Mexico

Author: Mattingly, B.E.

Date: 1990

Publication/journal/publisher: New Mexico Office of the State Engineer, November 1990, TDH-90-8

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: http://www.ose.state.nm.us/publications_library_hydrologyrpts.html

Document Location: OSE Library

Work initiated by: OSE

Work funded by: OSE

Type of review: Unknown

Location of Work: Mimbres Basin

Abstract or brief summary:

A hydrologic investigation of China Draw, a tributary of the Mimbres River in the Mimbres Basin was performed on October 30, 1990 to evaluate whether water would be available to an applicant for a new appropriation of 158.9 acre-feet of surface water for irrigation. The property which the applicant proposes to irrigate is located in a critical block of the Mimbres Basin Model. Hydrologic analysis and a field investigation of China Draw indicate that water is likely to be available to the applicant in the amount requested on occasional years. Approval of the application would result in water level declines in the area of the proposed application due to reduced recharge to the underlying aquifer.

Topic category: Hydrology
Keywords: Mimbres Basin, hydrologic maps, ground water quality, springs
County: Grant and Luna

Title: Hydrologic Maps and Data in the Mimbres Basin, New Mexico

Author: McLean, J.S.

Date: 1977

Publication/journal/publisher: U.S. Geological Survey, Open-File Report 77-314, 531 p., ill., 7 maps (6 fold), 29 cm, scale 1:48,000, April 1977. Prepared in cooperation with the New Mexico Office of the State Engineer

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: Contact USGS

Web site address: <http://pubs.er.usgs.gov/usgspubs/ofr/ofr77314>

Document Location: DBS&A SW Library

Work initiated by: USGS, OSE

Work funded by: USGS, OSE

Type of review: unknown

Location of Work: Mimbres Basin

Abstract or brief summary:

This basic data report for the Mimbres River basin, New Mexico, lists well and spring data including well locations, water levels, well yields, and chemical analyses of well and spring water. Maps, scale 1:250,000, show well locations, water-level contours, and water-level declines.

Topic category: Hydrology
Keywords: Colorado River, surface water supply
County: Colorado River Basin

Title: Surface water supply of Colorado River drainage above Yuma, 1906

Author: Meeker, R.I. and H.S. Reed

Date: 1908

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 211, 149 p., illus.,
Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp211>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin, NM

Abstract or brief summary:

The water supply of the United States is of more importance to the life and pursuits of the people than any other natural resource. In the arid States the limit of agricultural development is determined by the amount of water available for irrigation, while in all parts of the country the increase in the population of cities and towns makes necessary additional water supplies for domestic and industrial uses, in procuring which both the quantity and the quality of the water that may be obtained must be considered.

Topic category: Hydrology
Keywords: Upper Gila River
County: Southwestern New Mexico

Title: Memorandum Status of Investigations on Upper Gila River

Author: Meeker, R.I. and R.H. Fischer

Date: 1947

Publication/journal/publisher: Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila River, Southwestern New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Tree-ring, Upper Gila River, discharge
County: Southeastern Arizona

Title: Tree-Ring Reconstruction of Upper Gila River Discharge

Author: Meko, D. and D.A. Graybill

Date: 1995

Publication/journal/publisher: Water Resources Bulletin, 31(4), 605-616

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila River Drainage, Southeastern Arizona

Abstract or brief summary:

Tree-ring analysis is one method of extending our knowledge of hydrologic variability beyond the relatively short period covered by gaged streamflow records. In this paper, a network of recently developed tree-ring chronologies is used to reconstruct annual river discharge in the upper Gila River drainage in southeastern Arizona and southwestern Arizona since A.D. 1663.

Topic category: Hydrology
Keywords: Bear Canyon Lake, fish exclusion
evaluation
County: Grant County

Title: Bear Canyon Lake Fish Exclusion Evaluation Report

Author: Miller W.J.

Date: 2001

Publication/journal/publisher: Miller Ecological Consultants, Inc. Prepared for Engineers Inc. and New Mexico Department of Game and Fish. October 18, 2001

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):
DBS&A Southwest NM Library

Purchase Price: Contact NMGF

Web site address:

Document Location: Contact NMGF

Work initiated by: Miller Ecological Consultants, Inc.

Work funded by: Engineers, Inc. and NMGF

Type of review: Unknown

Location of Work: Bear Canyon Lake, Grant County

Abstract or brief summary:

Control of non-native fish escapement is one element required for the rehabilitation of Bear Canyon Lake. The purpose of this study was to examine the feasibility of constructing on-site facilities to control escapement or downstream movement of non-native fishes from Bear Canyon Lake. The results of this study includes the development of three design alternatives for fish exclusion devices that meet NMGF criteria. The two most practical options for the facility are a coanda screen downstream of the stilling basin or a cylindrical screen on the primary outlet in combination with water level management. To date there is insufficient hydrologic information to determine the flow through the reservoir due to storm events and related reservoir attenuation.

Topic category: Hydrology
Keywords: Hooker Reservoir, Upper Gila Subbasin
County: Southwest New Mexico

Title: Reconnaissance Report Upper Gila River Subbasin Hooker Reservoir New Mexico

Author: National Park Service

Date: 1947

Publication/journal/publisher: Region Three National Park Service

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Instream flow, New Mexico
County: New Mexico

Title: Instream Flow Strategies for New Mexico.

Author: Nelson, W., G. Horak, and J. Solomon

Date: 1978

Publication/journal/publisher: U.S. Fish and Wildlife Service. (FWS/OBS-78/41). Fort Collins, CO

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: http://www.ose.state.nm.us/isc_colorado_gila_sanfran_TS_RefGSF_Watershed.html

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Bear Canyon Reservoir, rehabilitation
County: Grant County

Title: Bear Canyon Reservoir Rehabilitation, Mimbres, Grant County, New Mexico, Environmental Assessment [Draft Report]

Author: New Mexico Department of Game and Fish, Conservation Services Division

Date: 2001

Publication/journal/publisher: New Mexico Department of Game and Fish, Conservation Services Division. Prepared for the U.S. Fish and Wildlife Service, Southwestern Region. September 14, 2001.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):
DBS&A Southwest NM Library

Purchase Price: Contact NMGF

Web site address:

Document Location: Contact NMGF

Work initiated by: NMGF

Work funded by:

Type of review: unknown

Location of Work: Bear Canyon Reservoir, Grant County

Abstract or brief summary:

The New Mexico Department of Game and Fish proposes to remove sediment from the upper end of Bear Canyon Reservoir to restore a portion of the original holding capacity thereby improving recreational opportunity and meeting legal requirements for irrigation.

Topic category: Hydrology
Keywords: Water resources, planning, Hidalgo County
County: Hidalgo County

Title: County Profile: Hidalgo County, Water Resources Assessment for Planning Purposes

Author: New Mexico Interstate Stream Commission and New Mexico State Engineer Office

Date: 1974

Publication/journal/publisher: New Mexico Interstate Stream Commission, Santa Fe, New Mexico, 30 p. + Appendix

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): DBS&A Library

Purchase Price:

Web site address:

Document Location: Contact the OSE

Work initiated by: ISC, OSE

Work funded by: ISC, OSE

Type of review: Agency review

Location of Work: Hidalgo County

Abstract or brief summary:

The first part of this profile provides an inventory and information describing the natural and human resources of Hidalgo County. The profile suggests the extent to which selected projected future demands may be met with water supplies presently available for use in the county.

Topic category: Hydrology
Keywords: Water resources, planning, Luna County
County: Luna County

Title: County Profile: Luna County, Water Resources Assessment for Planning Purposes

Author: New Mexico Interstate Stream Commission and New Mexico State Engineer Office

Date: 1974

Publication/journal/publisher: New Mexico Interstate Stream Commission, Santa Fe, New Mexico, 28 p. + Appendix

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): DBS&A Library

Purchase Price:

Web site address:

Document Location: Contact the OSE

Work initiated by: ISC, OSE

Work funded by: ISC, OSE

Type of review: Agency review

Location of Work: Luna County

Abstract or brief summary:

The first part of this profile provides an inventory and information describing the natural and human resources of Luna County. The profile suggests the extent to which selected projected future demands may be met with water supplies presently available for use in the county.

Topic category: Hydrology
Keywords: Water resources, planning, Catron County
County: Catron County

Title: County Profile: Catron County, Water Resources Assessment for Planning Purposes

Author: New Mexico Interstate Stream Commission and New Mexico State Engineer Office

Date: 1975

Publication/journal/publisher: New Mexico Interstate Stream Commission, Santa Fe, New Mexico, 29 p. + Appendix

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): DBS&A Library

Purchase Price:

Web site address:

Document Location: Contact the OSE

Work initiated by: ISC, OSE

Work funded by: ISC, OSE

Type of review: Agency review

Location of Work: Catron County

Abstract or brief summary:

The first part of this profile provides an inventory and information describing the natural and human resources of Catron County. The profile suggests the extent to which selected projected future demands may be met with water supplies presently available for use in the county.

Topic category: Hydrology
Keywords: Water resources, planning, Grant County
County: Grant County

Title: County Profile: Grant County, Water Resources Assessment for Planning Purposes

Author: New Mexico Interstate Stream Commission and the New Mexico State Engineer Office

Date: 1975

Publication/journal/publisher: New Mexico Interstate Stream Commission, Santa Fe, New Mexico, 34 p. + Appendix

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): DBS&A Library

Purchase Price:

Web site address:

Document Location: Contact the OSE

Work initiated by: ISC, OSE

Work funded by: ISC, OSE

Type of review: Agency review

Location of Work: Grant County

Abstract or brief summary:

The first part of this profile provides an inventory and information describing the natural and human resources of Grant County. The profile suggests the extent to which selected projected future demands may be met with water supplies presently available for use in the county.

Topic category: Hydrology
Keywords: Gila River Basin, hydrographic survey
County: Gila River Basin

Title: Gila River Hydrographic Survey. Santa Fe, New Mexico

Author: New Mexico Office of the State Engineer

Date: 1965

Publication/journal/publisher: New Mexico Office of the State Engineer

Type of document: Printed report with 8 volumes

Source of document / Search method (phone, internet, library, etc.): OSE Library

Purchase Price:

Web site address:

Document Location: OSE Library

Work initiated by: OSE

Work funded by: OSE

Type of review: Unknown

Location of Work: Gila River, Southwest New Mexico

Abstract or brief summary:

The Gila River Hydrographic Survey determined the location of uses, extent and source of water used beneficially from the Gila River, the San Francisco River, and San Simon Creek and their tributaries. The survey reports are divided into 8 volumes dated between 1963 and 1966: San Simon Creek, Red Rock Area, Cliff-Gila Buckhorn-Duck Creek Area, Upper Gila Area, Glenwood Mule Creek Area, Reserve Area, Luna Area, and Apache Creek Aragon Area. The volumes include maps showing the location and extent of irrigated lands, ownership of land and water use facilities, ditch capacities, location and description of wells, abstracts of water right files recorded in the State Engineer office, and determination of water requirements for the uses found.

Topic category: Hydrology
Keywords: Water resources, New Mexico
County: New Mexico

Title: Water Resources of New Mexico: Occurrence, Development, and Use

Author: New Mexico Office of the State Engineer

Date: 1978

Publication/journal/publisher: New Mexico State Engineer Office in cooperation with New Mexico Interstate Stream Commission and United States Geological Survey.
Printed by the State Planning Office, Santa Fe, 1967. Reprinted 1978.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): DBS&A Library

Purchase Price: Unknown

Web site address:

Document Location: DBS&A Library

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico river basins

Abstract or brief summary:

An introduction summary text treats the state-wide water situation, including discussions of the present water supply, water regulations, interstate water compacts, the drainage-basin system, and present water uses. Topographically, New Mexico divides into nine major surface-water drainage areas: Arkansas River Basin, Southern High Plains, Pecos River Basin, Central closed basins, Rio Grande Basin, Western closed basins, San Juan River Basin, Lower Colorado River Basin, and Southwestern closed basins. Data in this report are presented by drainage areas.

Topic category: Hydrology
Keywords: Grant County, water use, 1995
County: Grant County

Title: Summary of Water Use (in acre-feet) in Grant County, 1995

Author: New Mexico Office of the State Engineer

Date: 1998

Publication/journal/publisher: New Mexico Office of the State Engineer

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Irrigated acreage, Gila River Basin
County: Southwest New Mexico

Title: Irrigated Acreage Report 1999 Cliff-Gila Area

Author: New Mexico Office of the State Engineer

Date: 2000

Publication/journal/publisher:

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: http://www.ose.state.nm.us/isc_colorado_gila_sanfran_TS_RefGSF_Watershed.html

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Cliff-Gila, Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: GIS, spatial data
County: New Mexico

Title: EGIS data

Author: New Mexico Office of the State Engineer

Date: 2007

Publication/journal/publisher: New Mexico Office of the State Engineer

Type of document: Electronic files

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Free

Web site address: <http://www.seo.state.nm.us/water-info/gis-data/>

Document Location: OSE online

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

GIS data for water wells in the WATERS database (OSE Well Data), and declared groundwater basins.

Topic category: Hydrology
Keywords: Sustainable development, river basin
County:

Title: Land, water and development: Sustainable management of river basin systems

Author: Newson, M.D.

Date: 1997

Publication/journal/publisher: Routledge, London

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

This revised and expanded edition provides an introduction to the complex field of land and water development, stressing the need for new catchment management planning in both developed and developing countries.

Topic category: Hydrology
Keywords: Climate, drought, water resources management, streamflow
County: United States

Title: Analysis links Pacific decadal variability to drought and streamflow in the United States

Author: Nigam, S., M. Barlow, and E.H. Berbery

Date: 1999

Publication/journal/publisher: EOS Transactions, American Geophysical Union 80(51)

Type of document: Electronic file (PDF)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: http://www.agu.org/eos_elec/99088e.html

Document Location: AGU online

Work initiated by: S. Nigam, Dept. of Meteorology, Univ. of Maryland (?)

Work funded by: NOAA's Pan American Climate Studies program; NSF's Climate Dynamics program

Type of review: Peer review

Location of Work: United States

Abstract or brief summary:

The two leading patterns of Pacific decadal sea surface temperature (SST) variability are strongly linked to large-scale patterns of warm-season drought and streamflow in the United States, recent analysis shows. The predictive potential of this link may contribute to the development of warm-season hydroclimate forecasts in the United States. Understanding of low-frequency variations in drought and streamflow would be important for both agriculture and water resources management.

Topic category: Hydrology
Keywords: Upper Gila, water supply, damsite structure
County: Arizona/New Mexico

Title: Upper Gila Water Supply Study - Damsite and Structural Review Team Report for May 1981
Review

Author: No Author

Date: 1983

Publication/journal/publisher: No Publisher

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):
BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology

Keywords: New Mexico, piñon-juniper, baseline data, rainfall, soil moisture, runoff

County: New Mexico

Title: Rainfall, Soil Moisture, and Runoff Dynamics in New Mexico Piñon-Juniper Woodland Watersheds

Author: Ochoa, C., A. Fernald, and V. Tidwell

Date: 2008

Publication/journal/publisher: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station

Type of document: Electronic File

Source of document / Search method (phone, internet, library, etc.):
internet, forest service, treesearch

Purchase Price:

Web site address: <http://treesearch.fs.fed.us/pubs/>

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: Santa Fe

Abstract or brief summary:

Clearing trees in piñon-juniper woodlands may increase grass cover and infiltration, leading to reduced surface runoff and erosion. This study was conducted to evaluate piñon-juniper hydrology conditions during baseline data collection in a paired watershed study.

Topic category: Hydrology
Keywords: Water resources, Gila river, ground-water wells
County: Southwestern NM

Title: Water Resources Data, New Mexico, Water Year 1998. Volume 2. The Arkansas River Basin; the San Juan River Basin; the Gila River Basin; and Ground-Water Wells

Author: Ortiz, D., K.M. Lange, and L. Beal

Date: 1999

Publication/journal/publisher: U.S. Geological Survey, Water Data Report NM-98-2, 193 p.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: copy of original may be available

Web site address: <http://pubs.er.usgs.gov/usgspubs/wdr/wdrNM982>

Document Location: Contact USGS

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River Basin, Southwestern, New Mexico

Abstract or brief summary:

Water-resources data for the 1998 water year for New Mexico consist of records of discharge and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality in wells and springs. This report contains discharge records for 158 gaging stations; stage and contents for 26 lakes and reservoirs; water quality for 34 gaging stations, 23 wells, and 41 partial-record stations and miscellaneous sites; and water levels at 122 observation wells. Also included are 36 crest- stage, partial-record stations.

Topic category: Hydrology

Keywords: Water resources, Gila river, ground-water wells, water quality

County: Southwestern NM

Title: Water Resources Data, New Mexico, Water Year 1999. Volume 2. The Arkansas River Basin; the San Juan River Basin; the Gila River Basin; and Ground-Water Wells

Author: Ortiz, D., K.M. Lange, and L. Beal

Date: 2000

Publication/journal/publisher: U.S. Geological Survey, Water Data Report NM-99-2, 187 p.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: copy of original may be available

Web site address: <http://pubs.er.usgs.gov/usgspubs/wdr/wdrNM992>

Document Location: Contact USGS

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River Basin, Southwestern, New Mexico

Abstract or brief summary:

Water-resources data for the 1999 water year for New Mexico consist of discharge and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality in wells and springs. This report contains discharge records for 168 gaging stations; stage and contents for 26 lakes and reservoirs; water quality for 34 gaging stations, 26 wells, and 85 partial-record stations and miscellaneous sites; and water levels at 130 observation wells. Also included are 80 crest-stage, partial-record stations.

Topic category: Hydrology
Keywords: Mimbres Basin
County: Southwestern New Mexico

Title: Mimbres Basin Remote Sensing and NDVI Classification

Author: Padilla, A. and R. Dzur

Date: 2006

Publication/journal/publisher: Bohannon Huston, Inc.

Type of document: unknown

Source of document / Search method (phone, internet, library, etc.): Internet (from Sandia Labs reference list)

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Mimbres Basin, Southwestern New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Floods, magnitude, frequency, Colorado River Basin
County: Colorado River Basin

Title: Magnitude and frequency of floods in the United States part 9, Colorado River Basin

Author: Patterson, J.L. and W.P. Somers

Date: 1966

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 1683, xvii, 475p., charts, 1 folded map, 23 cm, Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp1683>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin

Abstract or brief summary:

This report outlines methods by which the magnitude and frequency of expected floods of any recurrence interval from 1.1 to 50 years can be determined at most points in the Colorado River basin.

Topic category: Hydrology

Keywords: Luna Energy

County: Luna County

Title: Fact sheet: Luna Energy Facility

Author: PNM

Date: 2004

Publication/journal/publisher:

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet (Accessed December 2004; website no longer up)

Purchase Price: Unknown

Web site address: http://www.pnm.com/invest/news/2004/1112_luna_facts.htm (website no longer up)

Document Location: Contact PNM

Work initiated by: PNM

Work funded by: PNM

Type of review:

Location of Work: Luna County

Abstract or brief summary:

Topic category: Hydrology

Keywords: Southwest New Mexico, regional water plan

County: Catron, Grant, Hidalgo, and Luna Counties

Title: Southwest New Mexico Regional Water Plan, Southwest New Mexico Planning District V, Catron, Grant, Hidalgo, and Luna Counties

Author: Resource Technology, Inc.

Date: 1991

Publication/journal/publisher: Resource Technology, Inc., Albuquerque, NM. Subconsultants Leggett, Brashears and Graham, Inc., Bureau of Business and Economic Research at UNM, and Emien Hall, attorney at UNM. Prepared for Southwest New Mexico Council of Governments and Black Range RC&D. April 1991

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): DBS&A Southwest NM Library

Purchase Price: Unknown

Web site address:

Document Location: DBS&A SW library

Work initiated by: Resource Technology, Inc., Southwest New Mexico Council of Governments, and Black Range RC&D

Work funded by: ISC

Type of review: Peer review

Location of Work: Catron, Grant, Hidalgo, and Luna Counties

Abstract or brief summary:

The primary purpose of this Southwest New Mexico Regional Water Plan is to identify the need and evaluate the options available for meeting water needs and uses in Catron, Grant, Hidalgo and Luna Counties over the next forty years. Based on the existing surface and ground water supplies in the southwestern New Mexico area, this Regional Plan evaluates existing and future water uses and needs on a sub-area (local) basis and recommends local detailed planning with region-wide cooperation to address the water problems of each sub-area.

Topic category: Hydrology

Keywords: Bear Canyon Dam, spillway capacity, dam failure

County: Grant County

Title: Spillway Capacity and Dam Failure Investigation, Bear Canyon Dam

Author: Resource Technology, Inc.

Date: 1998

Publication/journal/publisher: Resource Technology, Inc., Prepared for New Mexico Department of Game & Fish. July 30, 1998

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):

DBS&A Southwest NM Library

Purchase Price: Contact NMGF

Web site address:

Document Location: DBS&A SW library

Work initiated by: Resource Technology, Inc.

Work funded by: NMGF

Type of review: Unknown

Location of Work: Bear Canyon Dam, Grant County

Abstract or brief summary:

Report provides a description of the dam and reservoir, hydrologic analysis, breach analysis, results of analysis, and recommendations.

Topic category: Hydrology
Keywords: Groundwater atlas
County: SW Region

Title: Ground Water Atlas of the United States: Segment 2, Arizona, Colorado, New Mexico, Utah

Author: Robson, S.G. and E.R. Banta

Date: 1995

Publication/journal/publisher: U.S. Geological Survey, Hydrologic Atlas 730-C

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: \$9.00

Web site address: http://pubs.usgs.gov/ha/ha730/ch_c/index.html

Document Location: USGS online

Work initiated by: USGS

Work funded by: USGS

Type of review: Unknown

Location of Work: Arizona, Colorado, New Mexico, and Utah

Abstract or brief summary:

This chapter of the Ground Water Atlas of the United States describes the aquifers in Arizona, Colorado, New Mexico, and Utah. All the ground water in Segment 2 ultimately is derived from infiltration of precipitation, which varies considerably with the altitude and topography of the area.

Topic category: Hydrology
Keywords: Lower Gila, hydrology
County: Arizona

Title: The Lower Gila region, Arizona, a geographic, geologic, and hydrologic reconnaissance, with a guide to desert watering places

Author: Ross, C.P.

Date: 1923

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 498, xiv, 237 p., illus., pl. (part fold., incl. maps, diagrs.), tables, 23cm, Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp498>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Lower Gila, Yuma and Maricopa Counties, Arizona

Abstract or brief summary:

This report is designed, first, to give specific information in regard to watering places and routes of travel within the covered, and, second, to give - general information in regard to the geography, geology, and hydrology of the region. It may be considered to be composed of three parts. The first part gives general information regarding the region as a whole. The second gives logs of all the principal routes and descriptions of the geography, geology, and water resources of the localities traversed by these roads. The third part gives detailed descriptions of all the known watering places in the region, with all the data available regarding the water at each place. The report also contains relief maps of the whole region showing the existing water supplies and a reconnaissance geologic map.

Topic category: Hydrology
Keywords: Watershed, pinyon-juniper
County:

Title: Watershed values and conditions associated with pinyon-juniper communities

Author: Roundy, B.A., and J.L. Vernon

Date: 1999

Publication/journal/publisher: In Monsen, S.B. and R. Stevens (comp.), Ecology and management of pinyon-juniper communities within the interior west. September 15-18, 1997, Brigham Young Univ., Provo, Utah. RMRS-P-9, Rocky Mtn. Res. Station, Ogden, Utah. June 1999.

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Watershed Protection, Upper Frisco, Catron County, Flood Protection
County: Catron County

Title: Work Plan for Watershed Protection, Flood Prevention and Recreation Upper Frisco Watershed, Catron County, NM, Apache County, AZ

Author: San Francisco Soil and Water Conservation District, Catron County Commissioners, and New Mexico Department of Game and Fish

Date: 1964

Publication/journal/publisher: U.S. Department of Agriculture, Soil Conservation Service, 60 p. + Maps

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet (from WRRRI library search)

Purchase Price:

Web site address:

Document Location: WRRRI Library at New Mexico State University

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Frisco watershed, Catron County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Colorado River, Supreme Court decision,
Gila River
County: Grant County

Title: Supreme Court decision on Colorado River water suit brings renewed hope of big dam on Gila River in Grant County.

Author: Silver City Daily Press

Date: 1955

Publication/journal/publisher: Silver City Daily Press, p. 4. December 1955

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River, Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: floods, rain, Grant County
County: Grant County

Title: Unprecedented Rains and Floods: Grant County Fairly Soaked by Deluge Last Friday and Saturday

Author: Silver City Enterprise

Date: 1904

Publication/journal/publisher: Silver City Enterprise, pp. 1-4, October 1904

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila Watershed, land management
County: Southwest New Mexico

Title: Preliminary Recommendations for a Joint Program of Land Management by All Federal Agencies in the Upper Gila Watershed

Author: Soil Conservation Service

Date: 1936

Publication/journal/publisher: USDA Soil Conservation Service, Unpublished report

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Irrigation, Deming
County: Luna County

Title: Irrigation in the Deming area, Luna County, New Mexico

Author: Soil Conservation Service

Date: 1945

Publication/journal/publisher: USDA Soil Conservation Service, Region 6, Regional Soil Conservation Surveys Division, Regional Water Conservation Division, Albuquerque, New Mexico, June 1945. Prepared for the Farm Security Administration.

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

DBS&A Southwest NM Library

Purchase Price: Contact SCS

Web site address:

Document Location: DBS&A SW Library

Work initiated by: SCS, Farm Security Administration

Work funded by: SCS, Farm Security Administration

Type of review: Agency and Peer Review

Location of Work: Deming area

Abstract or brief summary:

This report covers the following: 1) ground-water supplies available for irrigation; 2) classification of the lands as to irrigability; and 3) cost of pumping water for irrigation.

Topic category: Hydrology
Keywords: watershed protection, Upper Gila River
County: Arizona/New Mexico

Title: Upper Gila River Watershed New Mexico and Arizona: Program for Runoff and Waterflow Retardation and Soil Erosion Prevention

Author: Soil Conservation Service

Date: 1954

Publication/journal/publisher: USDA Soil Conservation Service, Unpublished USDA report

Type of document: report

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Gila river, human impacts
County: Southwestern NM

Title: Where the River Meets the Ditch: Human and Natural Impacts on the Gila River, New Mexico, 1880–2000

Author: Soles, E.S.

Date: 2003

Publication/journal/publisher: Master's thesis, Department of Geography, Northern Arizona University: Flagstaff, AZ

Type of document: Thesis

Source of document / Search method (phone, internet, library, etc.): Library

Purchase Price:

Web site address:

Document Location: Northern Arizona University Library

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila river, Southwestern NM

Abstract or brief summary:

Flood histories, anecdotal accounts of change in the riparian corridor, and surveys of floodplain morphology conducted during site visits in 1999 and 2000 were evaluated to reconstruct probable depositional and erosive phases during the past century. Changes in the extent of vegetated bar and floodplain surfaces were quantified from six sets of historic aerial photographs (airphotos) dating from 1934-1996.

Topic category: Hydrology
Keywords: water use, irrigated acreage
County: New Mexico

Title: Water Use by Categories in New Mexico Counties and River Basins, and Irrigated and Dry Cropland Acreage in 1975

Author: Sorensen, E.F.

Date: 1976

Publication/journal/publisher: New Mexico State Engineer Office, Technical Report 41

Type of document: Printed report available online

Source of document / Search method (phone, internet, library, etc.): New Mexico State Engineer Office Library

Purchase Price:

Web site address: http://www.ose.state.nm.us/publications_library_techrpts.html

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Withdrawals and depletions of water used in 1975 in New Mexico counties and river basins are tabulated in this report. Water use is shown for 13 categories and the amounts furnished from surface-water and ground-water sources are identified. Changes in river basin and surface-water drainage basin boundaries and areas have been made and these revisions are shown on Figures 1 and 2. Data on irrigated agriculture in the State are included.

Topic category: Hydrology
Keywords: water use, irrigated acreage
County: New Mexico

Title: Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in 1980

Author: Sorensen, E.F.

Date: 1981

Publication/journal/publisher: New Mexico State Engineer Office, Technical Report 44, Santa Fe, New Mexico

Type of document: Printed report available online

Source of document / Search method (phone, internet, library, etc.): New Mexico State Engineer Office Library

Purchase Price:

Web site address: http://www.ose.state.nm.us/publications_library_techrpts.html

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Water withdrawals and depletions in 1980 in New Mexico counties and river basins are tabulated in this report. Water use is shown for 12 categories and the amounts furnished from surface-water and ground-water sources are identified.

Topic category: Hydrology
Keywords: Utility, Southwest NM
County: Southwestern NM

Title: Utility Plan for Southwest New Mexico

Author: Southwest New Mexico Council of Governments

Date: 1975

Publication/journal/publisher: CPA-NM-1010-NMP/D5. Silver City, New Mexico. March 1975

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Southwestern New Mexico

Abstract or brief summary:

Topic category: Hydrology Keywords: Land suitability analysis, Upper Gila watershed County: Southwestern New Mexico
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Title: Land suitability analysis for the upper Gila watershed

Author: Steiner, F., L. McSherry, and J. Cohen

Date: 2000

Publication/journal/publisher: Landscape and Urban Planning 50(4): 199-214

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila River, Southwestern New Mexico

Abstract or brief summary:

In the United States, federal management agencies, such as the U.S. Forest Service and the U.S. Bureau of Land Management are required to assess the capability of land for future use. Here, a framework for land suitability analysis is presented for the upper Gila River watershed in Arizona and New Mexico.

Topic category: Hydrology
Keywords: Hydrology, Hidalgo County
County: Hidalgo County

Title: Preliminary Work for a Hydrologic Report on Hidalgo County, New Mexico

Author: Stone, W.J. and K.M. O'Brien

Date: 1990

Publication/journal/publisher: New Mexico Bureau of Mines and Mineral Resources, Open-File Report 372. Prepared in cooperation with Office of the New Mexico State Engineer and the U.S. Geological Survey.

Type of document: printed report, pdf

Source of document / Search method (phone, internet, library, etc.): Available through NMBGMR website, \$10, or free pdf download.

Purchase Price: \$10.00 for CD

Web site address: http://geoinfo.nmt.edu/publications/openfile/downloads/OFR300-399/351-375/372/ofr_372.pdf

Document Location: NMBGMR online

Work initiated by: NMBGMR

Work funded by: NMBGMR, NMOSE, USGS

Type of review: Peer review

Location of Work: Hidalgo County

Abstract or brief summary:

Hidalgo County, in extreme southwestern New Mexico, is characterized by typical and-semiarid, basin-and-range terrain. The continental divide bisects area. Although the hydrology of each of the basins has been previously studied to some extent, most of these efforts are more than 25 years old and there is no comprehensive report on the county. Provides discussion on regional setting, general geology, economy and water use, general groundwater hydrology, Animas Valley and other areas, additional work needed, and conclusions. Although incomplete, the information gathered for this report affords a better understanding of the water resources of this arid landscape. Several conclusions regarding the geologic controls of the hydrologic systems and water supply in Hidalgo County may be drawn.

Topic category: Hydrology
Keywords: rivers, riparian areas, Gila River
County: Gila River Basin

Title: Tamarisk and river restoration along the San Pedro and Gila Rivers

Author: Stromberg, J., S. Lite, and C. Paradzick

Date: 2005

Publication/journal/publisher: U.S. Department of Agriculture, Forest Service, Rocky Mountain
Research Station: 302-307

Type of document: Electronic File

Source of document / Search method (phone, internet, library, etc.): Internet (Forest Service, tree
search)

Purchase Price:

Web site address: <http://treesearch.fs.fed.us/pubs/>

Document Location: On internet

Work initiated by: Forest Service

Work funded by:

Type of review:

Location of Work: San Pedro and Gila River Basin

Abstract or brief summary:

The abundance of tamarisk (*Tamarix ramosissima* and related species) along the San Pedro and Gila River flood plains varies with differences in stream flow regimes.

Topic category: Hydrology
Keywords: Flood, Sonoran, riparian, deposition
County: Arizona

Title: Flood flows and dynamics of Sonoran riparian forests

Author: Stromberg, J.C. and C.D.T. Patten, and B.D. Richer

Date: 1991

Publication/journal/publisher: Rivers. 2:221-235

Type of document: Journal Article

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Unknown

Web site address:

<http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=3877284&q=Flood+flows+and+dynamics+of+Sonoran+riparian+forests&uid=1100685&setcookie=yes>

Document Location: Rivers (Journal)

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona

Abstract or brief summary:

Analysis of present-day and historical data indicates that floods play a primary role in the recruitment of Sonoran riparian trees in the Hassayampa River system. Recruitment of Fremont cottonwood (*Populus fremontii*) and Goodding willow (*Salix gooddingii*) depends on (1) large prior-year floods to remove herbaceous cover; (2) high spring flows or rains to stimulate germination on floodplains above the zone of frequent flood inundation; and (3) reduced post-germination flooding to reduce seedling mortality. Small differences in timing of spring floods influence relative recruitment success of the two species because of differences in emergence phenologies. Recruitment of velvet mesquite (*Prosopis velutina*) depends on large (>5-year) floods to disperse seeds to establishment sites on floodplains 1-2 m above the water table, and small (>2-year) late-summer floods or rains to inundate germination sites. Flood processes including sediment deposition contribute to the spatial partitioning of age classes of cottonwood, willow, mesquite, and various shrubs and herbs, along gradients of floodplain height and depth to the water table.

Topic category: Hydrology Keywords: Gila, watershed restoration, Taylor Creek, planning County: Southwestern NM
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Title: Upper Gila Watershed, Taylor Creek: Watershed Restoration Action Strategy

Author: Taylor Creek Watershed Committee

Date: 2005

Publication/journal/publisher: Taylor Creek Watershed Committee

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: http://sierrasoil.org/Taylor_Creek_WRAS.pdf

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila Watershed, Taylor Creek

Abstract or brief summary:

This Watershed Restoration Action Strategy (WRAS) identifies stakeholder driven solutions to address water quality issues in Taylor Creek. The principle stakeholders include private property owners living within the watershed, the Gila National Forest which administers public lands within the watershed, and the New Mexico Environment Department Surface Water Quality Bureau (SWQB) which is responsible for protecting designated uses of surface waters of the state.

Topic category: Hydrology
Keywords: San Pedro River, streamflow, precipitation
County: Southwestern NM

Title: Trends in streamflow of the San Pedro River, southeastern Arizona, and regional trends in precipitation and streamflow in southeastern Arizona and southwestern New Mexico

Author: Thomas, B.E. and D.R. Pool

Date: 2006

Publication/journal/publisher: U.S Geological Survey, Professional Paper 1712, vii, 79 p.

Type of document: Electronic file (PDF)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: Call for availability and price

Web site address: <http://pubs.usgs.gov/pp/pp1712/>

Document Location: DBS&A network

Work initiated by:

Work funded by:

Type of review:

Location of Work: San Pedro River, Southeast Arizona

Abstract or brief summary:

This study was done to improve the understanding of trends in streamflow of the San Pedro River in southeastern Arizona. Annual streamflow of the river at Charleston, Arizona, has decreased by more than 50 percent during the 20th century.

Topic category: Hydrology
Keywords: Floods, magnitude, frequency,
southwestern United States
County: Southwestern New Mexico

Title: Methods for estimating magnitude and frequency of floods in the southwestern United States

Author: Thomas, B.E., H.W. Hjalmarson, and S.D. Waltemeyer

Date: 1994

Publication/journal/publisher: U.S. Geological Survey, Water Supply Paper 2433, vii, 195 p., ill., maps, 28 cm.

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: \$17.00

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp2433>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Southwestern New Mexico

Abstract or brief summary:

Equations for estimating 2-, 5-, 10-, 25-, 50-, and 100-year peak discharges at ungaged sites in the southwestern United States were developed using generalized least-squares multiple-regression techniques and a hybrid method that was developed in this study.

Topic category: Hydrology
Keywords: Lower Colorado River Basin, water resources planning
County: Lower Colorado River Basin

Title: New Mexico State Planning Office Report-Lower Colorado River basin

Author: Trauger, F.D.

Date: 1965

Publication/journal/publisher: U.S Geological Survey, Open File Report 65-161, 41 p. Prepared in coordination with the New Mexico State Engineer, December 1964

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):
USGS publication search

Purchase Price: Unknown

Web site address: <http://pubs.er.usgs.gov/usgspubs/ofr/ofr65161>

Document Location: UNM ILL from Zimmerman Library

Work initiated by:

Work funded by:

Type of review:

Location of Work: Lower Colorado River Basin

Abstract or brief summary:

This work contains information on the geology, soil, vegetation and hydrology of the Lower Colorado River Basin.

Topic category: Hydrology
Keywords: water resources, water quality, water supply
County: Grant County

Title: Water Resources and General Geology of Grant County, New Mexico

Author: Trauger, F.D.

Date: 1972

Publication/journal/publisher: New Mexico State Bureau of Mines and Mineral Resources, Hydrologic Report 2

Type of document: Electronic file (CD), out of print

Source of document / Search method (phone, internet, library, etc.): NMBGMR search

Purchase Price: \$10.00 for CD

Web site address: NA

Document Location: Photocopy at DBS&A Water Resources Library

Work initiated by: New Mexico State Bureau of Mines and Mineral Resources

Work funded by: Prepared in cooperation with the U.S. Geological Survey, the New Mexico State Engineer Office, and the Grant County Commission.

Type of review: Agency review

Location of Work: Grant County

Abstract or brief summary:

This report includes information on the geographic and geologic setting, hydrogeology, streamflow, groundwater movement, water quality, and water supply potential of Grant County. Includes descriptive records for 1,724 wells, test holes, and shafts, 45 springs or spring groups, drillers' logs of 60 wells, chemical analyses of 224 samples of ground and surface water, a summary of streamflow records, water level records of selected wells, and geologic and hydrologic maps.

Topic category: Hydrology
Keywords: Franks' Ranch, well field, Grant County
County: Grant County

Title: Franks' Ranch Well Field, Well No. 7, Grant County, New Mexico

Author: Trauger, F.D. and L.M. Coons

Date: 1982

Publication/journal/publisher: Geohydrology Associates, Inc. 4015 Carlisle, N.E. Suite A, Albuquerque, New Mexico. Prepared for Molzen-Corbin & Associates, Inc. November 1982.

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):
DBS&A Southwest NM Library

Purchase Price: Contact Geohydrology Associates, Inc.

Web site address:

Document Location: DBS&A SW library

Work initiated by: Geohydrology Associates, Inc., Layne-Western Company, Inc.

Work funded by: Molzen-Corbin & Associates, Inc., Town of Silver City

Type of review: Unknown

Location of Work: Tyrone Quadrangle, Grant County

Abstract or brief summary:

Report summarizes results of drilling and test pumping operations of Well No. 7, Franks' Ranch Well Field, Grant County, NM. The Franks' Ranch No. 7 Well, drilled to a total depth of 1,100 feet, penetrated only rocks of the upper part of the Gila Conglomerate. The specific capacity of the well is about 6.7 gallons per minute per foot of drawdown. The No. 7 Well probably could be pumped steadily at a rate of about 1,000 gpm. The water produced by the well is moderately hard but otherwise of excellent quality suitable for domestic, stock, and most industrial uses.

Topic category: Hydrology
Keywords: water resources
County: Grant County

Title: Water resources appraisal for east-central Grant County, New Mexico

Author: Trauger, F.D., D.N. Jenkins, and R.L. Link

Date: 1980

Publication/journal/publisher: Geohydrology Associates, Inc. Albuquerque, New Mexico.

Prepared for the Southwest New Mexico Council of Governments. January 1980.

Type of document: Printed Report

Source of document / Search method (phone, internet, library, etc.):

out of print, UofA library has hardcopy. Salsa search

Purchase Price:

Web site address:

Document Location: OSE Library

Work initiated by:

Work funded by: Four Corners Regional Commission

Type of review:

Location of Work: east-central Grant County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Ground-water, Gila River Valley
County: Southwest New Mexico

Title: Ground-water inventory in the upper Gila River Valley in New Mexico and Arizona, scope of investigation and methods used.

Author: Turner, S.F. and L.C. Halpenny

Date: 1941

Publication/journal/publisher: Transactions American Geophysical Union 22: 738-744, Part 3

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: Silver City, water system master plan
County: Grant County

Title: Phase 1-storage

Author: Unknown

Date: 1984

Publication/journal/publisher: In Silver City Water System Master Plan

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Silver City, NM

Abstract or brief summary:

Topic category: Hydrology
Keywords: water rights, Mimbres river
County: Grant County

Title: Upper Mimbres River mainstream diagram of adjudicated water rights

Author: Unknown

Date: 2003

Publication/journal/publisher: Unpublished, provided at the OSE public hearing, Silver City, New Mexico, June 12, 2003

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Mimbres Basin

Abstract or brief summary:

Topic category: Hydrology
Keywords: Water resources, legal
County:

Title: Water Resources Assessment, Part C-Summary of Supply with Practical and Legal Considerations

Author: Unknown

Date: Undated

Publication/journal/publisher:

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: water use, water demand
County:

Title: Water Use and Water Demand, Part B-Reconciling Supply and Demand

Author: Unknown

Date: Undated

Publication/journal/publisher:

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work:

Abstract or brief summary:

Topic category: Hydrology
Keywords: James Canyon Dam,river diversion,
Whitewater Creek
County: Catron County

Title: Upper Whitewater Creek diversion project, Phase II, James Canyon Dam

Author: URS Greiner-Woodward Clyde

Date: 2000

Publication/journal/publisher: URS Greiner-Woodward Clyde, January 21, 2000

Type of document:

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: James Canyon Dam, Whitewater creek

Abstract or brief summary:

Topic category: Hydrology
Keywords: Lower Colorado River Basin, water resources
County: Lower Colorado River Basin

Title: Nation's Water Resources 1975-2000 Volume 4: Lower Colorado Region; Second National Water Assessment

Author: U.S. Water Resources Council

Date: 1978

Publication/journal/publisher: U.S. Water Resources Council, Washington, D.C. 49 p.

Type of document: unknown

Source of document / Search method (phone, internet, library, etc.): Internet (from WRRRI library search)

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Lower Colorado River Basin

Abstract or brief summary:

Topic category: Hydrology
Keywords: Colorado River, surface water supply
County: Colorado River Basin

Title: Surface water supply of the United States, 1907-8, Part IX, Colorado River basin

Author: USGS

Date: 1910

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 249, 206 p., 10 leaves of plates, ill., 23 cm, Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.):
USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp249>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin, NM

Abstract or brief summary:

This volume contains results of flow measurements made on certain streams in the United States.

Topic category: Hydrology
Keywords: Colorado River, surface water supply
County: Colorado River Basin

Title: Surface water supply of the United States, 1913, Part IX, Colorado River basin

Author: USGS

Date: 1915

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 359, 260 p., ill, 23 cm, Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp359>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin

Abstract or brief summary:

This volume is one of a series of 12 reports presenting results of measurements of flow made on certain streams in the United States during the calendar year 1913.

Topic category: Hydrology
Keywords: Colorado River, surface water supply
County: Colorado River Basin

Title: Surface water supply of the United States, 1914, Part IX, Colorado River basin

Author: USGS

Date: 1916

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 389, 198, xxxiii p., 23 cm, Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.):
USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp389>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin

Abstract or brief summary:

This volume is one of a series of 14 reports presenting results of measurements of flow made on certain streams in the United States during the year ending September 1914.

Topic category: Hydrology
Keywords: Colorado River, surface water supply
County: Colorado River Basin

Title: Surface water supply of the United States, 1932, Part IX, Colorado River basin

Author: USGS

Date: 1933

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 734, v, 137 p., 23 cm,
Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.):
USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp734>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Colorado River Basin

Abstract or brief summary:

This volume is one of a series of 14 reports presenting results of measurements of flow made on certain streams in the United States during the year ending September 1932.

Topic category: Hydrology
Keywords: Surface water, flow records, Lower Colorado River Basin
County: Lower Colorado River Basin

Title: Summary of records of surface waters at stations on tributaries in lower Colorado River Basin, 1888-1938

Author: USGS

Date: 1947

Publication/journal/publisher: U.S. Geological Survey, Water-Supply Paper 1049, iv, 486 p., 23 cm, Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wsp/wsp1049>

Document Location: USGS online

Work initiated by:

Work funded by:

Type of review:

Location of Work: Lower Colorado River Basin

Abstract or brief summary:

This report presents summaries of records of discharge at gaging stations on tributaries in the Lower Colorado River Basin.

Topic category: Hydrology
Keywords: Gila River, Middle Fork Dam
County: Southwest New Mexico

Title: Gila River, Cliff, New Mexico to Middle Fork Dam Sites

Author: USGS

Date: 1952

Publication/journal/publisher: U.S. Geological Survey, Washington, D.C. U.S. Government Printing Office

Type of document: 1:31,680 scale map

Source of document / Search method (phone, internet, library, etc.):

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River, Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: USGS, water data
County: New Mexico

Title: New Mexico Water Data Quick Links to NWISWeb

Author: USGS

Date: 2009

Publication/journal/publisher: U.S. Geological Survey

Type of document: Electronic files

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: Free

Web site address: http://nm.water.usgs.gov/water_data_QL.htm

Document Location: USGS online

Work initiated by: USGS

Work funded by: USGS and various cooperatives

Type of review: Agency review

Location of Work: New Mexico

Abstract or brief summary:

Website allows user to view and download information for real-time data streamflow, lake and reservoirs levels, and groundwater levels by County. Website also provides site information for sample collection locations. Historic data sets available for surface water (streamflow and lake/reservoir levels), groundwater levels, and water quality.

Topic category: Hydrology
Keywords: Watershed, Vanar Wash, Hidalgo
County: Hidalgo County

Title: Watershed Work Plan for Vanar Wash Watershed Cochise County, Arizona and Hidalgo County, New Mexico

Author: Vanar Wash Flood Control District, Wilcox-San Simon Soil Conservation District, Cochise County Board of Supervisors

Date: 1964

Publication/journal/publisher: U.S. Department of Agriculture, Soil Conservation Service, Albuquerque, New Mexico, 40 p. + Maps

Type of document:

Source of document / Search method (phone, internet, library, etc.): Internet (from WRRRI library search)

Purchase Price:

Web site address:

Document Location: WRRRI Library at New Mexico State University

Work initiated by:

Work funded by:

Type of review:

Location of Work: Vanar Wash Watershed, Hidalgo County

Abstract or brief summary:

Topic category: Hydrology
Keywords: Wildfire, hydrology, Bandelier National Monument
County: Los Alamos

Title: Effects of wildfire on the hydrology of Capulin and Rito de los Frijoles canyons, Bandelier National Monument, New Mexico

Author: Veenhuis, J.E.

Date: 2002

Publication/journal/publisher: U.S. Geological Survey Water-Resources Investigations Report 2002-4152, 39 p.

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: <http://pubs.er.usgs.gov/usgspubs/wri/wri20024152>

Document Location: USGS online

Work initiated by: USGS and National Park Service (NPS)

Work funded by: USGS and NPS?

Type of review: Unknown

Location of Work: Frijoles and Capulin canyons, north-central NM

Abstract or brief summary:

In June of 1977, the La Mesa wildfire burned 15,270 acres in and around Frijoles Canyon in Bandelier National Monument and the adjacent Santa Fe National Forest, New Mexico. The Dome wildfire in April of 1996 in Bandelier National Monument burned 16,516 acres in Capulin Canyon and the surrounding Dome Wilderness area. The magnitude of large stormflows increased dramatically after these wildfires; peak flows at the most downstream streamflow-gaging station in Frijoles and Capulin Canyons increased to about 160 times the maximum recorded flood prior to the fire.

Topic category: Hydrology
Keywords: Hydrology, wildfire, Bandelier, Frijoles, Capulin
County: Los Alamos

Title: Effects of wildfire on the hydrology of Frijoles and Capulin canyons in and near Bandelier National Monument, New Mexico

Author: Veenhuis, J.E.

Date: 2002

Publication/journal/publisher: U.S. Geological Survey Fact Sheet 141-02, 4 p.

Type of document: Electronic file (PDF)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: none

Web site address: <http://pubs.er.usgs.gov/usgspubs/fs/fs14102>

Document Location: USGS online

Work initiated by: USGS and National Park Service (NPS)

Work funded by: USGS and NPS?

Type of review: Unknown

Location of Work: Frijoles and Capulin canyons, north-central NM

Abstract or brief summary:

In June 1977, the La Mesa wildfire burned 15,270 acres in and near Frijoles Canyon in Bandelier National Monument (BNM) and the adjacent Santa Fe National Forest, New Mexico. In April 1996, the Dome wildfire in BNM burned 16,516 acres in and near Capulin Canyon and the surrounding Dome Wilderness area.

Post-fire hydrologic changes have been observed, but not often documented, for wildfires in AZ, CA, ID, MT, NM, and WY. This fact sheet summarizes the effects of the 1977 La Mesa wildfire on the hydrology of Frijoles Canyon and the 1996 Dome wildfire on the hydrology of Capulin Canyon in and near BNM.

Topic category: Hydrology Keywords: Upper Gila County: Arizona/New Mexico
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Title: Upper Gila Studies

Author: Wagner

Date: 1946

Publication/journal/publisher: Bureau of Reclamation

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Arizona/New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Upper Gila River
County: Southwest New Mexico

Title: Report and Supporting Data Preliminary Investigations Upper Gila River New Mexico

Author: Wagner, W.J.

Date: 1942

Publication/journal/publisher: Unknown

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Southwest New Mexico

Abstract or brief summary:

Topic category: Hydrology
Keywords: Aquifer storage and recovery
County: Doña Ana, Luna, and Sierra Counties

Title: Aquifer Storage and Recovery Assessment, Nutt Hockett Basin, Dona Ana, Luna, and Sierra Counties, and Corralitos Basin, Doña Ana County, New Mexico

Author: Walsh, P. and S.T. Finch Jr.

Date: 2004

Publication/journal/publisher: John Shomaker & Associates, Inc. Water Resource and Environmental Consultants

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): Internet (WRRRI library search)

Purchase Price: Unknown

Web site address: <http://wrrri.nmsu.edu/wrdis/library/librarysearch.html>

Document Location: NMSU WRRRI Library

Work initiated by:

Work funded by:

Type of review:

Location of Work: Nutt Hockett Basin, Corralitos Basin

Abstract or brief summary:

Topic category: Hydrology
Keywords: flood frequency, unregulated stream flow
County: New Mexico

Title: Techniques for Estimating Flood-Flow Frequency for Unregulated Streams in New Mexico

Author: Waltemeyer, S.D.

Date: 1986

Publication/journal/publisher: USGS Water-Resources Investigations Report 86-4104
Washington, D.C. U.S. Government Printing Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: <http://pubs.er.usgs.gov/usgspubs/wri/wri864104>

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Equations for estimating flood discharges for exceedance probabilities of 0.50, 0.20, 0.10, 0.04, 0.02, and 0.01 at ungaged sites in New Mexico were developed and updated from streamflow gaging station data through 1982. The 1984 data from selected stations in the southwestern part of the State were also used because of the high discharges that occurred.

Topic category: Hydrology
Keywords: Estimating streamflow, southern New Mexico
County: Southern New Mexico

Title: Methods for Estimating Streamflow at Mountain Fronts in Southern New Mexico

Author: Waltemeyer, S.D.

Date: 1994

Publication/journal/publisher: U.S. Geological Survey, Water-Resources Investigations Report 93-4213, Prepared in Cooperation with the New Mexico State Engineer Office

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: not in stock

Web site address: <http://pubs.er.usgs.gov/usgspubs/wri/wri934213>

Document Location: USGS online

Work initiated by: USGS, OSE

Work funded by: USGS, OSE

Type of review: Unknown

Location of Work: Southern New Mexico

Abstract or brief summary:

Streamflow from mountainous areas was investigated at selected mountain fronts in southern New Mexico. During most years streamflow infiltrates into the alluvial-basin aquifers at or near the mountain fronts. Streamflow at mountain fronts is potential recharge to these aquifers. Streamflow response to precipitation differed significantly between streams in southern and northern New Mexico.

Topic category: Hydrology
Keywords: Silver City, water system, storage,
distribution, master plan
County: Grant County

Title: Silver City Water System Master Plan, Final Report, Phase 1--Storage and Distribution

Author: Waterscience Southwest and Engineers Incorporated

Date: 1984

Publication/journal/publisher: Waterscience Southwest and Engineers Incorporated. Prepared for
Town of Silver City. January 1984

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

DBS&A Southwest NM Library

Purchase Price: Unknown

Web site address:

Document Location: DBS&A SW library

Work initiated by: Waterscience Southwest and Engineers Incorporated

Work funded by: Town of Silver City

Type of review: Peer review

Location of Work: Silver City, NM

Abstract or brief summary:

This report summarizes the results of a 2-year engineering study of the Town water system. The study focuses on the storage and distribution of water and on the recent problems with the W Mountain transmission line and pumping system. The report provides an overview of the water system, present and future population and water use, an engineering evaluation, and proposed water system improvements.

Topic category: Hydrology
Keywords: water distribution
County: Grant County

Title: Water Distribution System, Town of Silver City, Grant County, NM

Author: Waterscience Southwest Engineers Inc.

Date: 1983

Publication/journal/publisher: Silver City, NM

Type of document: Map

Source of document / Search method (phone, internet, library, etc.):

Waterscience Southwest Engineers Inc.

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Silver City

Abstract or brief summary:

Topic category: Hydrology
Keywords: Gila River, ground-water, phreatophyte
County: Graham County, Arizona

Title: Geology and ground-water system in the Gila River Phreatophyte Project area, Graham County, Arizona

Author: Weist, W.G., Jr.

Date: 1971

Publication/journal/publisher: U.S. Geological Survey Professional Paper 655-D, 22 p.

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: <http://pubs.er.usgs.gov/usgspubs/pp/pp655D>

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River, Graham County, Arizona

Abstract or brief summary:

The Gila River Phreatophyte Project is along a 15-mile reach of the Gila River at the head of San Carlos Reservoir in the San Carlos Indian Reservation. The area is underlain by two major water-bearing units-the basin-fill deposits and the alluvial deposits.

Topic category: Hydrology
Keywords: New Mexico, climate summaries
County: New Mexico

Title: New Mexico Climate Summaries

Author: Western Regional Climate Center

Date: 2009

Publication/journal/publisher: Western Regional Climate Center

Type of document: Website

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: free

Web site address: <http://www.wrcc.dri.edu/summary/mapnm.html>

Document Location: On internet

Work initiated by: WRCC

Work funded by: WRCC

Type of review: Agency review

Location of Work: Southwest New Mexico

Abstract or brief summary:

Website has map of New Mexico climate stations, allows user to view and download climate summaries and site information.

Topic category: Hydrology
Keywords: Irrigation diversions, diversion measurements, Gila River, San Francisco River, San Simon Creek
County: Southwest New Mexico

Title: Status of Irrigation Diversions and Diversion Measurements in the Gila River, San Francisco River and San Simon Creek Basins in New Mexico

Author: Whipple, J.J.

Date: 2000

Publication/journal/publisher: Interstate Stream Commission, October 2000.

Type of document: unknown

Source of document / Search method (phone, internet, library, etc.): Internet (from Sandia Labs reference list)

Purchase Price:

Web site address:

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River, San Francisco River, NM

Abstract or brief summary:

Topic category: Hydrology
Keywords: Gila River, ecology, development, water demand
County: Southwestern NM

Title: The Gila River

Author: Widdison, J.

Date: 2008

Publication/journal/publisher: IN: Water Matters! The Utton Transboundary Resources Center and University of New Mexico School of Law, p. 63-68.

Type of document: Electronic file (e.g. CD)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: NA

Web site address: http://uttoncenter.unm.edu/pdfs/Water_Matters_2009.pdf

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Gila River , New Mexico

Abstract or brief summary:

The Gila River begins in New Mexico's Gila Wilderness, and ends on the far side of Arizona – by joining the Colorado River. In both New Mexico and Arizona the river has for many years been a source of controversy. The Gila River is highly prized by the citizens of New Mexico, neighboring communities, conservationists, and other people who love and appreciate the wilderness. But longstanding differences still exist between those who would like to have the Gila River remain in its free flowing state and those who would like to see its waters dammed or diverted for other uses.

Topic category: Hydrology

Keywords: Alluvial basin, regional aquifer, Colorado, Texas, New Mexico

County: Colorado, New Mexico, Texas

Title: Summary of southwest alluvial basins regional aquifer-systems analysis in parts of Colorado, New Mexico, and Texas

Author: Wilkins, D.W.

Date: 1998

Publication/journal/publisher: U.S. Geological Survey Prof. Paper No. 1407A: A1-A49

Type of document: Electronic file (DJVU)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: <http://pubs.er.usgs.gov/usgspubs/pp/pp1407A>

Document Location:

Work initiated by:

Work funded by:

Type of review:

Location of Work: Southwest United States

Abstract or brief summary:

The Southwest Alluvial Basins Regional Aquifer-System Analysis in parts of Colorado, New Mexico, and Texas consists of 22 alluvial basins along and adjacent to the Rio Grande. Geochemistry, recharge, and ground-water quality in the San Luis Basin in Colorado, and the Albuquerque-Belen, Socorro, and Mesilla basins in New Mexico are described. Ground-water flow systems were simulated in the San Luis, Albuquerque-Belen, and Mesilla basins.

Topic category: Hydrology
Keywords: water use, irrigated acreage
County: New Mexico

Title: Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in 1985

Author: Wilson, B.C.

Date: 1986

Publication/journal/publisher: New Mexico State Engineer Office, Technical Report 46

Type of document: Printed report available online

Source of document / Search method (phone, internet, library, etc.):
New Mexico State Engineer Office Library

Purchase Price:

Web site address: http://www.ose.state.nm.us/publications_library_techrpts.html

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

Withdrawals and depletions for 13 water use categories are tabulated by county and river basin. Each water use category is defined in the text and an overview of sources of data is presented, as well as a discussion of the reliability of the data. Maps showing the state's counties, river basins, declared groundwater basins and location of irrigated cropland are also included.

Topic category: Hydrology
Keywords: water use, irrigated acreage
County: New Mexico

Title: Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in 1990

Author: Wilson, B.C.

Date: 1992

Publication/journal/publisher: New Mexico State Engineer Office, Technical Report 47. July 1992

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.):
New Mexico State Engineer Office Library

Purchase Price: Contact OSE

Web site address: http://www.ose.state.nm.us/publications_technical_reports_wateruse_county90.html

Document Location: OSE Library

Work initiated by: OSE

Work funded by: OSE

Type of review: Agency review

Location of Work: New Mexico

Abstract or brief summary:

The results of New Mexico's 1990 water use inventory are presented in this report. Categories inventoried include: Public Water Supply; Self-Supplied Domestic; Irrigated Agriculture; Livestock; Self-Supplied Commercial, Industrial, Mining, and Power; and Reservoir Evaporation. Summary tables by County and River basin are available on the OSE website.

Topic category: Hydrology
Keywords: Water demand, water supply, hydrology
County: Grant, Hidalgo, Luna Counties

Title: Projected Water Demands in Grant, Hidalgo, and Luna Counties, New Mexico, 2000 to 2040

Author: Wilson, B.C.

Date: 2001

Publication/journal/publisher: New Mexico Office of the State Engineer. December 16, 2001

Type of document: Printed report

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price: unknown

Web site address: http://www.ose.state.nm.us/publications_library_hydrologyrpts.html

Document Location: DBS&A file

Work initiated by: OSE

Work funded by: OSE

Type of review: unknown

Location of Work: Grant, Hidalgo, and Luna Counties

Abstract or brief summary:

Water demand projections for selected water use categories were prepared to determine if there is a need for the augmentation of water supply sources in Grant, Hidalgo, and Luna Counties, to meet projected demand for the next 40 years.

Topic category: Hydrology
Keywords: water use, irrigated acreage
County: New Mexico

Title: Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in 1995

Author: Wilson, B.C. and A.A. Lucero

Date: 1997

Publication/journal/publisher: New Mexico State Engineer Office, Technical Report 49. September 1997

Type of document: Printed report available online

Source of document / Search method (phone, internet, library, etc.):
New Mexico State Engineer Office Library

Purchase Price:

Web site address: http://www.ose.state.nm.us/publications_library_tchrpts.html

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

The results of New Mexico's 1995 water use inventory are presented in this report. Categories inventoried include: Public Water Supply; Self-Supplied Domestic; Irrigated Agriculture; Livestock; Self-Supplied Commercial, Industrial, Mining, and Power; and Reservoir Evaporation.

Topic category: Hydrology
Keywords: water use, irrigated acreage
County: New Mexico

Title: Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in 2000

Author: Wilson, B.C., A.A. Lucero, J.T. Romero, and P.J. Romero

Date: 2003

Publication/journal/publisher: New Mexico Office of the State Engineer, Technical Report 51.
February 2003

Type of document: Printed report available online

Source of document / Search method (phone, internet, library, etc.):
New Mexico State Engineer Office Library

Purchase Price:

Web site address: http://www.ose.state.nm.us/publications_library_tchrpts.html

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: New Mexico

Abstract or brief summary:

The results of New Mexico's 2000 water use inventory are presented in this report. Categories inventoried include: Public Water Supply; Self-Supplied Domestic; Irrigated Agriculture; Livestock; Self-Supplied Commercial, Industrial, Mining, and Power; and Reservoir Evaporation.

Topic category: Hydrology
Keywords: Ground-water conditions, maps
County: Cochise and Graham Counties, Arizona and Hidalgo County

Title: Maps showing ground-water conditions in the San Simon area, Cochise and Graham Counties, Arizona and in Hidalgo County, New Mexico--1975

Author: Wilson, R P. and N.D. White

Date: 1976

Publication/journal/publisher: U.S. Geological Survey, Water-Resources Investigations Report 76-89, 2 maps, 112 x 75 cm, folded to 27 x 21 cm, in envelope 29 x 24 cm.

Type of document: Map Sheet

Source of document / Search method (phone, internet, library, etc.): USGS publication search

Purchase Price: copy of original may be available

Web site address: <http://pubs.er.usgs.gov/usgspubs/wri/wri7689>

Document Location: Contact USGS

Work initiated by:

Work funded by:

Type of review:

Location of Work: Cochise and Graham Counties, Arizona and Hidalgo County

Abstract or brief summary:

Arizona is divided into 67 ground-water areas, and individual areas are selected for intensive data collection once every 6 years.

Topic category: Hydrology
Keywords: Upper Gila river, geomorphology, flood frequency, flow duration
County: Arizona

Title: Upper Gila River Fluvial Geomorphology Study, Final Report, Arizona - December 2004

Author: Wittler, R.J., J.E. Klawon, and K.L. Gollins

Date: 2004

Publication/journal/publisher: Technical Service Center, Denver, CO - Bureau of Reclamation, Dept. of Interior

Type of document: Report

Source of document / Search method (phone, internet, library, etc.):

BOR Phoenix Area Office Library

Purchase Price:

Web site address:

http://www.adwr.state.az.us/dwr/Content/Find_by_Program/Rural_Programs/content/map/documents/Final_Report--Arizona.pdf

Document Location: On internet

Work initiated by:

Work funded by:

Type of review:

Location of Work: Upper Gila River, Arizona

Abstract or brief summary:

This report finalizes the Upper Gila River Fluvial Geomorphology Study. In addition to summarizing the other study reports and findings, this report provides conceptual level recommendations for demonstration projects. The purpose of the projects is to demonstrate techniques for managing the river that take into account the causes of the geomorphic processes that dominate the fluvial system. This report also contains recommendations for a general-purpose monitoring program to accompany demonstration projects.

Topic category: Hydrology
Keywords: runoff, erosion, sediment concentration, bedload, slash, understory
County: Catron County

Title: Hydrologic and vegetal responses to fuelwood harvest and slash disposal in a piñon pine and juniper dominated grassland

Author: Wood, M.K. and N. Javed

Date: 2001

Publication/journal/publisher: New Mexico Water Resources Research Institute, Las Cruces, New Mexico. Miscellaneous Report No. M27, October 2001.

Type of document: Electronic file (PDF)

Source of document / Search method (phone, internet, library, etc.): Internet

Purchase Price:

Web site address: <http://wrrri.nmsu.edu/publish/miscrpt/m27/m27.pdf>

Document Location: WRRRI online

Work initiated by: WRRRI and NMSU

Work funded by: NMSU Agricultural Experiment Station

Type of review: Peer review

Location of Work: Township 9 South Range 12 West Section 36, Catron County

Abstract or brief summary:

The objective of this research project was to determine the effects of fuelwood harvesting and slash disposal of a piñon pine and juniper woodland on understory plant response, runoff, sediment concentration, and bedload. The treatments included: (1) four plots not clearcut (control plots), (2) four plots clearcut and slash completely removed in June 1989, (3) four plots clearcut with slash uniformly scattered in June 1989, (4) four plots clearcut with slash uniformly scattered in June 1989 and burned on October 31, 1989, and (5) four plots clearcut with slash uniformly scattered in June 1989 and burned on November 7, 1991. Vegetation responses, runoff, sediment concentration, and bedload were measured each monsoon season through 1999 for a total of 10 years. The least amounts of runoff and erosion were from (1) plots that were clearcut and had the slash removed in June 1989, (2) plots that were clearcut with the slash homogenously scattered on the plots in June 1989, and (3) plots that were clearcut with the slash homogenously scattered on the plots in June 1989 and burned in November 1991. The slash scatter with no burn treatment started protecting the site immediately after clearcutting. Removing the slash after clearcutting left the plots temporarily exposed, which resulted in high levels of runoff and erosion for a couple of years. However, results during subsequent years were similar to clearcutting with scattered slash.