



Ground-Water and Related Publications of the Louisiana District of the U.S. Geological Survey, 1904-2000

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
Water Resources Special Report No. 14



2002

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
PUBLIC WORKS AND WATER RESOURCES DIVISION
WATER RESOURCES SECTION

In cooperation with the
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

WATER RESOURCES
SPECIAL REPORT NO. 14

**GROUND-WATER AND RELATED PUBLICATIONS OF
THE LOUISIANA DISTRICT OF THE
U.S. GEOLOGICAL SURVEY, 1904-2000**

By
Dorothy L. Collier
U.S. GEOLOGICAL SURVEY

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STATE OF LOUISIANA

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Ground-Water and Related Publications of the Louisiana District of the U.S. Geological Survey, 1904-2000

By Dorothy L. Collier

ABSTRACT

The water-resources activities of the U.S. Geological Survey in Louisiana include data collection and interpretive investigations and research. The water-resources data and the results of the interpretive investigations and research are published by either the U.S. Geological Survey or cooperating agencies. This report lists publications resulting from ground-water and related activities of the Louisiana District of the U.S. Geological Survey from 1904 through 2000.

The publications are grouped into three categories: parish (geographic area), aquifer/aquifer system, and author. All categories of publications are listed alphabetically by senior author.

INTRODUCTION

The water-resources activities of the U.S. Geological Survey in Louisiana include collecting water-resources data and conducting interpretive hydrologic investigations and research. These activities are conducted largely through cooperation with the Louisiana Department of Transportation and Development and other Federal, State, and local agencies. The water-resources data and the results of the interpretive investigations and research are published or released by the U.S. Geological Survey, the Louisiana Department of Transportation and Development, or other cooperating agencies.

Purpose and Scope

This report lists all publications resulting from ground-water-resources activities in the Louisiana District and lists sources of information in the U.S. Geological Survey. The publications are grouped into three categories:

- parish (geographic area),
- aquifer (Red River alluvial, Mississippi River alluvial, Upland terrace, Chicot, Chicot equivalent, Evangeline, Evangeline equivalent, Jasper, Jasper equivalent, Catahoula, Cockfield, Sparta, and Carrizo-Wilcox), and
- author.

For each publication, the following information is presented: author, date of publication, title, publisher, and type of publication. All categories of publications are listed alphabetically by senior author. An author's name or publication date in brackets indicates that the author's name or publication date is not on the title page but is known.

Acknowledgments

Special thanks are given to Mary L. Anderson, Writer Editor, U.S. Geological Survey, and Don C. Dial, Director, Capital Area Ground Water Conservation Commission, for their thorough reviews of this report, and to Zahir "Bo" Bolourchi, Chief, Water Resources Section, Louisiana Department of Transportation and Development, who contributed substantially to the design and format of the report.

SOURCES OF U.S. GEOLOGICAL SURVEY AND COOPERATIVE PUBLICATIONS

Questions about reports and water-resources activities of the U.S. Geological Survey in Louisiana can be directed to either the U.S. Geological Survey, or the Louisiana Department of Transportation and Development (DOTD).

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The Louisiana District, USGS, home page on the World Wide Web can be accessed at the Uniform Resource Locator (URL) address: <http://la.water.usgs.gov> and the DOTD home page can be accessed at the URL address: [http:// www.dotd.louisiana.gov/intermodal/division](http://www.dotd.louisiana.gov/intermodal/division)

U.S. Geological Survey publication series	Source
Professional Papers Water-Supply Papers Circulars Fact Sheets Water-Resources Investigations Reports Open-File Reports Hydrologic Investigations Atlases Topographic Maps	U.S. Geological Survey Branch of Information Services Box 25286 Denver, CO 80225-0286 Toll Free: (888) ASK-USGS
Annual State Water-Data Reports	National Technical Information Service U.S. Department of Commerce 5285 Port Royal Road Springfield, VA 22161 (703) 487-4660
Cooperator publication series	Source
Water Resources Bulletins Water Resources Pamphlets Water Resources Technical Reports Water Resources Basic Records Reports Water Resources Special Reports	District Chief U.S. Geological Survey 3535 S. Sherwood Forest Blvd., Suite 120 Baton Rouge, LA 70816 Chief, Water Resources Section Louisiana Department of Transportation and Development P.O. Box 94245 Baton Rouge, LA 70804-9245

**The U.S. Geological Survey lists new publications at the following URL:
<http://pubs.usgs.gov/publications/index.html>**

Selected Louisiana Libraries

Many water-resources publications are available for inspection at the following libraries. Libraries are listed alphabetically by city then numerically by zip code.

Rapides Parish Library
411 Washington St.
Alexandria, LA 71301

Hill Memorial Library
Louisiana State University
Baton Rouge, LA 70803

Louisiana Room
Troy H. Middleton Library
Louisiana State University
Baton Rouge, LA 70803

Louisiana House of Representatives
Research Library
P.O. Box 44012, State Capitol
Baton Rouge, LA 70804

Reference Department
East Baton Rouge Parish Library
7711 Goodwood Blvd.
Baton Rouge, LA 70806

John B. Cade Library
Southern University Library
Baton Rouge, LA 70813

Recorder of Documents
Louisiana State Library
P.O. Box 131
Baton Rouge, LA 70821

Bossier Parish Library
718 Benton Rd.
Bossier City, LA 71111

St. Bernard Parish Library
1125 E. St. Bernard St.
Chalmette, LA 70043

Arnold Ledoux Library
LSU - Eunice
P.O. Box 1129
Eunice, LA 70535

Washington Parish Library
825 Free St.
Franklinton, LA 70438

A.C. Lewis Memorial Library
Grambling State University
P.O. Box 3
Grambling, LA 71245

Linus A. Sims Memorial Library
Southeastern Louisiana University
10896 SGA Drive
Hammond, LA 70402

Documents Room
Dupre Library
University of Louisiana at Lafayette
P.O. Box 40199
Lafayette, LA 70504

Calcasieu Parish Public Library
411 Pujo St.
Lake Charles, LA 70601

Department of Government Documents
Lether Frazar Memorial Library
McNeese State University
Lake Charles, LA 70609

Vernon Parish Library
1401 Nolan Trace
Leesville, LA 71446

Avoyelles Parish Library
202 S. Main St.
Marksville, LA 71351

Jefferson Parish Library
4747 W. Napoleon Avenue
Metairie, LA 70010

Sandel Library
University of Louisiana at Monroe
700 University Ave.
Monroe, LA 71201

Ouachita Parish Library
1800 Stubbs Ave.
Monroe, LA 71201

Watson Memorial Library
Northwestern State University of Louisiana
913 College Avenue
Natchitoches, LA 71457-0002

Loyola University Law Library
6363 St. Charles Ave.
New Orleans, LA 70118

Serials Department
Howard-Tilton Memorial Library
Tulane University
7001 Freret St.
New Orleans, LA 70118

Delgado Community College
Moss Technical Library
615 City Park Ave.
New Orleans, LA 70119

Will W. Alexander Library
Dillard University
2601 Gentilly Blvd.
New Orleans, LA 70122

Xavier University Library
1 Drexel Drive
Pine and Palmetto Sts.
New Orleans, LA 70125

Leonard S. Washington Memorial Library
Southern University-New Orleans
6400 Press Dr.
New Orleans, LA 70126

Louisiana Division
New Orleans Public Library
219 Loyola Ave.
New Orleans, LA 70140

Louisiana Documents Collection
Earl K. Long Library
University of New Orleans
Lakefront
New Orleans, LA 70148

Richard W. Norton Library
Louisiana College
Pineville, LA 71360

Louisiana Tech University
Prescott Memorial Library
Ruston, LA 71270

Documents Librarian
Shreve-Memorial Library
424 Texas St.
Shreveport, LA 71101

Centenary College Library
Shreveport, LA 71104

Documents Department
Noel Memorial Library
LSU in Shreveport
One University Place
Shreveport, LA 71115

Documents Department
Ellender Memorial Library
Nichols State University
College Station
Thibodaux, LA 70301

Other Selected Libraries

Libraries are listed alphabetically by state then city.

Geology/Geophysics Library
4697 Geology
University of California
Los Angeles, CA 90024-1567

Library, Documents Division
University of Illinois
Urbana, IL 61801

Serials Department
Cornell University Libraries
Ithaca, NY 14853

Gifts and Exchange Librarian
Oregon State University
Library-Serials
Corvallis, OR 97331

Librarian
University of Texas, Arlington Library
Gov. Publications/Maps Dept.
P.O. Box 19497
Arlington, TX 76019

Federal Libraries

Libraries are listed alphabetically by state, then District of Columbia.

Librarian, Geologic Division
U.S. Geological Survey
345 Middlefield Road, MS 955
Menlo Park, CA 94025

Technical Services
U.S. Geological Survey Library
Box 25046, MS 914
Denver Federal Center
Lakewood, CO 80225

U.S. Army Corps of Engineers
New Orleans District
District Library, Room 389
P.O. Box 60267
New Orleans, LA 70160

U.S. Army Corps of Engineers
Waterways Experiment Station
Library Branch
P.O. Box 631
Vicksburg, MS 39180-0631

U.S. Geological Survey Library
Serial Records Unit
National Center, MS-950
12201 Sunrise Valley Drive
Reston, VA 20192

Library of Congress
State Documents Section
Exchange and Gift Division
10 First Street, SE
Washington, D.C. 20540

U.S. Department of the Interior
Natural Resources Library
Gifts and Exchange Section
18th and C Street NW
Washington, D.C. 20240

National Water Information Center

The U.S. Geological Survey's National Water Information Center is designed to serve as a focus for the dissemination of water-resources information to all levels of government, academia, the private sector, and the general public. Services include referrals to appropriate sources of hydrologic information, as well as providing single copies of Fact Sheets on various water resources topics.

National Water Information Center
U.S. Geological Survey
427 National Center
12201 Sunrise Valley Drive
Reston, VA 20192
E-mail: h2oinfo@usgs.gov
1-800-426-9000

URL:
<http://water.usgs.gov>

Additional Earth Science URL

The U.S. Geological Survey home page can be accessed at the following URL:
<http://www.usgs.gov>

EDUCATIONAL OUTREACH PROGRAM

The Water Resources Education Initiative (WREI) is part of the U.S. Geological Survey's Educational Outreach Program. The WREI for kindergarten through the 12th grade is designed to stimulate interest in water resources for teachers and students and encourage individuals to become more aware of basic concepts in the science of water.

The following water education posters are available through WREI:

- *Ground water: the hidden resource!*
- *Water: the resource that gets used & used & used for everything!*
- *Water quality: potential sources of pollution*

Additional middle school activities on ground water are available in the following loose-leaf publication: Vandas, Stephen J., 1994, Water resources professional's outreach notebook, ground water, grade level 6-8: U.S. Geological Survey Open-File Report 94-73, 97 p. This publication and the posters are free of charge. Send requests to: USGS Branch of Information Services, Box 25286, Denver Federal Center, Denver, CO 80225, or telephone toll free (888) ASK-USGS.

For additional information on WREI activities, access the following URL:
<http://water.usgs.gov/public/outreach/wrei.html>

GROUND-WATER AND RELATED PUBLICATIONS BY PARISH

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT-U.S. GEOLOGICAL SURVEY WATER RESOURCES COOPERATIVE PROGRAM



Figure 1. Louisiana parishes.

GROUND-WATER AND RELATED PUBLICATIONS BY PARISH

Parishes are listed alphabetically (fig. 1). Reports with more than a two-parish study area, not named in title, are listed alphabetically by geographic area in the multiparish section. “No entry” means there are no publications under the parish category, but publications may be found under the multiparish or statewide categories.

Acadia

Stanley, T.B., Jr., and Maher, J.C., 1944, Ground-water resources of Jefferson Davis and Acadia Parishes, Louisiana: Louisiana Department of Public Works, 93 p.

U.S. Geological Survey [Jones, P.H.], 1946, Water, *in* Acadia Parish Resources and Facilities: Louisiana Department of Public Works and Acadia Parish Planning Board, p. 30-42.

Allen

Carlson, D.D., and Marshall, S.L., 1980, Water resources, *in* Soil survey of Allen Parish, Louisiana: U.S. Department of Agriculture, Soil Conservation Service, 5 p.

Ascension

Long, R.A., 1965, Feasibility of a scavenger-well system as a solution to the problem of vertical saltwater encroachment: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 15**, 27 p.

Long, R.A., 1965, Ground water in the Geismar-Gonzales area, Ascension Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 7**, 67 p.

Tomaszewski, D.J., 1988, Ground-water hydrology of Livingston, St. Helena, and parts of Ascension and Tangipahoa Parishes, southeastern Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 43**, 54 p.

U.S. Geological Survey, [Jones, P.H.], [1947], Water, *in* Ascension Parish Resources and Facilities: Louisiana Department of Public Works and Ascension Parish Planning Board.

Assumption

U.S. Geological Survey, [Cardwell, G.T., Sloss, Raymond, and Duncan, A.C.], [1965], Water, *in* Assumption Parish Resources and Facilities: Louisiana Department of Public Works and Assumption Parish Development Board, p. 25-38.

Avoyelles

Maher, J.C., 1939, Fluoride in the ground water of Avoyelles and Rapides Parishes, Louisiana: Louisiana Department of Conservation **Geological Pamphlet no. 1**, 23 p.

Marie, J.R., 1971, Ground-water resources of Avoyelles Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 15**, 70 p.

Beauregard

Jones, P.H., 1951, An investigation of the relation between stream flow and ground-water conditions in the upper drainage basin of Bundick Creek in Beauregard Parish, Louisiana: U.S. Geological Survey **Open-File Report**, 22 p.

U.S. Geological Survey, [Turcan, A.N., Jr.], 1949, Water, *in* Beauregard Parish Resources and Facilities: Louisiana Department of Public Works and Beauregard Parish Development Board, p. 36-41.

Bienville

Ryals, G.N., 1980, Potentiometric surface of the Wilcox-Carrizo aquifer; Bienville, Red River, northern Natchitoches, and southern Webster Parishes, Louisiana: U.S. Geological Survey **Open-File Report 80-1179**, 1 sheet.

U.S. Geological Survey, [Turcan, A.N., Jr.], [1952], Water, *in* Bienville Parish Resources and Facilities: Louisiana Department of Public Works and Bienville Parish Development Board, p. 50-56.

Bossier

Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.

Snider, J.L., 1983, Ground-water resources of the Fillmore-Haughton-Red Chute area, Bossier and Webster Parishes, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 32**, 21 p.

Caddo

Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.

Rapp, T.R., 1996, Ground-water resources of Caddo Parish, Louisiana, 1992: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 58**, 89 p.

Calcasieu

Harder, A.H., 1960, The geology and ground-water resources of Calcasieu Parish, Louisiana: U.S. Geological Survey **Water-Supply Paper 1488**, 102 p.

Hodges, A.L., Jr., Rogers, S.M., and Harder, A.H., 1963, Gas and brackish water in fresh-water aquifers, Lake Charles area, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 13**, 35 p.

Jones, P.H., 1950, Ground-water conditions in the Lake Charles area, Louisiana: U.S. Geological Survey **Open-File Report**, 16 p.

Lovelace, J.K., 1998, Distribution of saltwater in the Chicot aquifer system in the Calcasieu Parish area, Louisiana, 1995-96: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 62**, 59 p.

Swindel, G.W., and Hodges, A.L., Jr., 1962, Emergency ground-water supplies in Calcasieu Parish, Louisiana: Louisiana Department of Conservation and Louisiana Department of Public Works, text on reverse of map.

Calcasieu — continued

Trudeau, D.A., 1994, Geohydrology and the occurrence of selected chemical contaminants at a hazardous-waste disposal site, Calcasieu Parish, Louisiana, 1984-85: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 53**, 54 p.

U.S. Geological Survey, 1945, Water, *in* Calcasieu Parish Resources and Facilities: Louisiana Department of Public Works and Calcasieu Parish Development Board, p. 39-42.

Caldwell

No entry.

Cameron

Calandro, A.J. and Harder, A.H., [1960], Water, *in* Cameron Parish Resources and Facilities: Louisiana Department of Public Works and Cameron Parish Development Board, p. 46-60.

U.S. Geological Survey, [Jones, P.H.], [1947], Water, *in* Cameron Parish Resources and Facilities: Louisiana Department of Public Works and Cameron Parish Development Board.

Catahoula

Marie, J.R., [1964], Water, *in* Catahoula Parish Resources and Facilities: Louisiana Department of Public Works and Catahoula Parish Development Board, p. 24-27.

U.S. Geological Survey, [Turcan, A.N., Jr.], 1949, Water, *in* Catahoula Parish Resources and Facilities: Louisiana Department of Public Works and Catahoula Parish Planning Board, p. 30-35.

Claiborne

U.S. Geological Survey, [Turcan, A.N., Jr.], 1948, Water, *in* Claiborne Parish Resources and Facilities: Louisiana Department of Public Works and Claiborne Parish Planning Board, p. 32-37.

Concordia

No entry.

De Soto

Page, L.V., and Préé, H.L., Jr., 1964, Water resources of De Soto Parish, Louisiana: U.S. Geological Survey **Water-Supply Paper 1774**, 152 p.

Page, L.V. and Préé, H.L., Jr., [no date], Water, *in* De Soto Parish, Resources and Facilities: Louisiana Department of Public Works and De Soto Parish Planning Board, p. 28-29.

Snider, J.L., 1982, Premining hydrology of the lignite area in southeastern De Soto Parish, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 29**, 40 p.

Snider, J.L., and Covay, K.J., 1987, Premining hydrology of the Logansport lignite area, De Soto Parish, Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 41**, 65 p.

U.S. Geological Survey, [Turcan, A.N., Jr.], [1949], Water, *in* De Soto Parish, Resources and Facilities: Louisiana Department of Public Works and De Soto Parish Planning Board.

East Baton Rouge

- Cushing, E.M., and Jones, P.H., 1945, Ground-water conditions of the Baton Rouge area, Louisiana, with special reference to the shallow artesian sands of the industrial district--A progress report: Louisiana Department of Public Works, 33 p.
- Halford, K.J., and Lovelace, J.K., 1994, Analysis of ground-water flow in the "1,200-foot" aquifer, Baton Rouge area, Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 54**, 68 p.
- Huntzinger, T.L., Whiteman, C.D., Jr., and Knochenmus, D.D., 1985, Simulation of ground-water movement in the "1,500- and 1,700-foot" aquifer of the Baton Rouge area, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 34**, 52 p.
- Kuniansky, E.L., 1989, Geohydrology and simulation of ground-water flow in the "400-foot," "600-foot," and adjacent aquifers, Baton Rouge area, Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 49**, 90 p.
- Kuniansky, E.L., Dial, D.C., and Trudeau, D.A., 1989, Maps of the "400-foot," "600-foot," and adjacent aquifers and confining beds, Baton Rouge area, Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 48**, 16 p.
- Meyer, R.R., and Rollo, J.R., 1965, Saltwater encroachment, Baton Rouge area, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 17**, 9 p.
- Meyer, R.R., and Turcan, A.N., Jr., 1953, Summary report on the geology and ground-water resources of the Baton Rouge area, Louisiana: U.S. Geological Survey **Open-File Report**, 23 p.
- Meyer, R.R., and Turcan, A.N., Jr., 1955, Geology and ground-water resources of the Baton Rouge area, Louisiana: U.S. Geological Survey **Water-Supply Paper 1296**, 138 p.
- Morgan, C.O., 1961, Ground-water conditions in the Baton Rouge area, 1954-59, with special reference to increased pumpage: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 2**, 78 p.
- Morgan, C.O., and Winner, M.D., Jr., 1962, Hydrochemical facies in the "400-foot" and "600-foot" sands of the Baton Rouge area, Louisiana, *in* Geological Survey research 1962; short papers in geology, hydrology, and topography, articles 1-59: U.S. Geological Survey **Professional Paper 450-B**, article 50, p. B120-B123.
- Morgan, C.O., and Winner, M.D., Jr., 1964, Salt-water encroachment in aquifers of the Baton Rouge area—preliminary report and proposal: Louisiana Department of Public Works, 37 p.
- Rollo, J.R., 1969, Saltwater encroachment in aquifers of the Baton Rouge area, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 13**, 45 p.
- Tomaszewski, D.J., 1996, Distribution and movement of saltwater in aquifers in the Baton Rouge area, Louisiana, 1990-92: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 59**, 44 p.
- Tomaszewski, D.J., 1998, Hydrogeology and the effects of pumpage on the "1,500-foot" sand south of the Baton Rouge fault, near Brusly, Louisiana, 1996: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 65**, 22 p.

East Baton Rouge — continued

- Tomaszewski, D.J., and Anderson, M.L., 1995, Data from wells in a chloride monitoring network, Baton Rouge area, Louisiana, 1965-94: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 19**, 40 p.
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Multiparish

For the purpose of this publication, Louisiana is geographically divided into five areas: northwest, northeast, central, southeast, and southwest (fig. 2). Publications within the geographic areas are listed alphabetically by senior author. The statewide section also is listed alphabetically by senior author.

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- Ludwig, A.H., and Terry, J.E., 1979, Preconstruction and postconstruction ground-water levels, Lock and Dam 3, Red River Valley, Louisiana: U.S. Geological Survey **Open-File Report 79-920**, 21 p.
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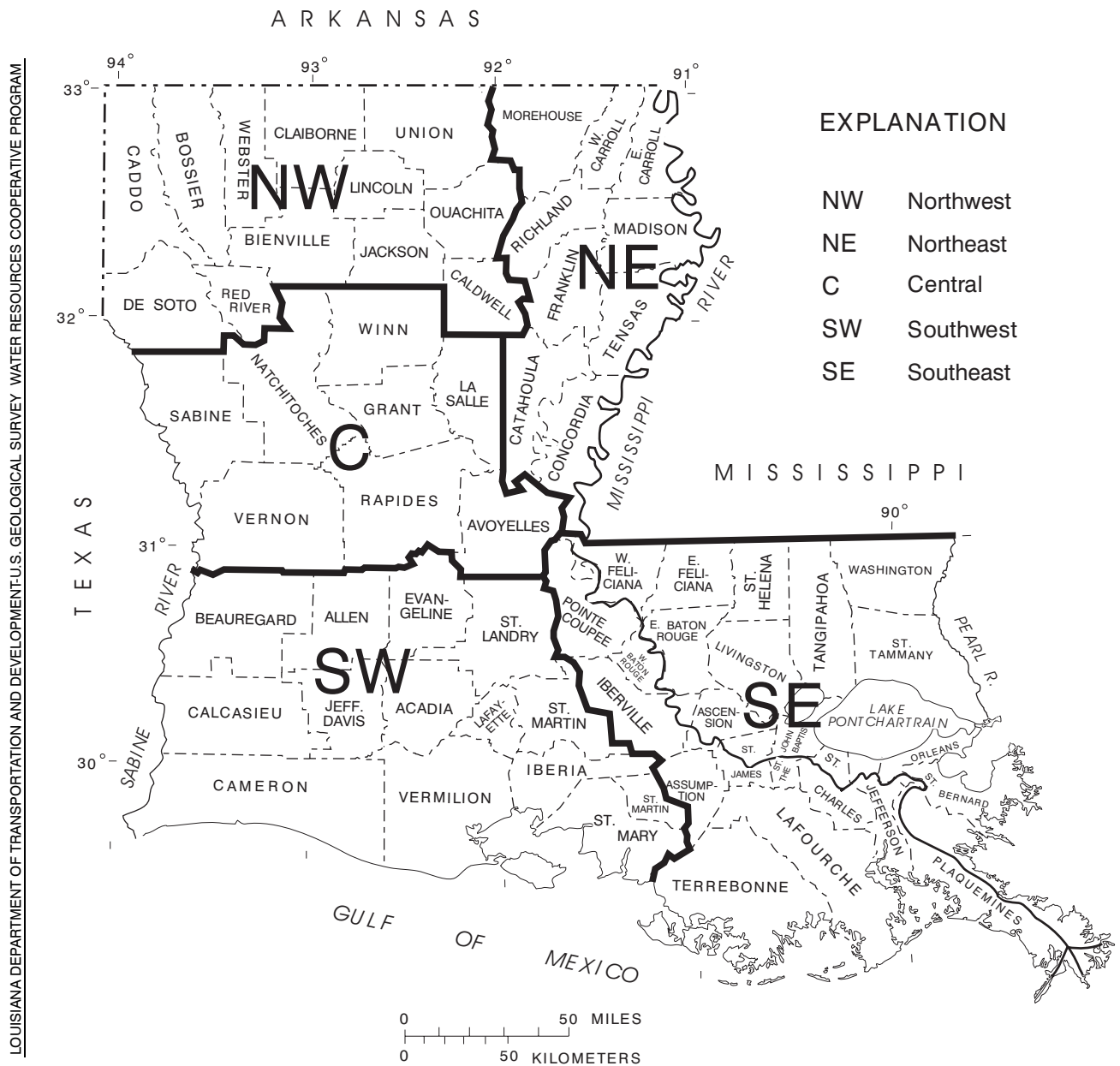


Figure 2. Louisiana parishes within each designated geographic area.

Northwest — continued

- Lurry, D.L., 1985, Public water supplies in Louisiana, volume 1: Northern Louisiana: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 13**, 119 p.
- McWreath, H.C., III, Nelson, J.D., and Fitzpatrick, D.J., 1991, Simulated response to pumping stresses in the Sparta aquifer, northern Louisiana and southern Arkansas: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 51**, 51 p.
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- Walters, D.J., 1995, Louisiana ground-water map no. 7: Potentiometric surface, 1991, and water-level changes, 1969-91, of the Chicot equivalent aquifer system in southeastern Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 94-4202**, 2 sheets.
- Walters, D.J., 1995, Louisiana ground-water map no. 11: Potentiometric surface, spring 1993, and water-level changes, 1987-93, of the Gonzales-New Orleans aquifer in southeastern Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 95-4169**, 2 sheets.
- Walters, D.J., and Lovelace, W.M., 1998, Ground-water-quality data for East and West Baton Rouge, East and West Feliciana, and Pointe Coupee Parishes, Louisiana, water years 1944-97: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 21**, 54 p., 1 pl.
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- Arcement, G.J., Dantin, L.J., Garrison, C.R., and Lovelace, W.M., 1991, Water resources data—Louisiana, water year 1990: U.S. Geological Survey **Water-Data Report LA-90-1**, 419 p.
- Arcement, G.J., Dantin, L.J., Garrison, C.R., and Lovelace, W.M., 1992, Water resources data—Louisiana, water year 1991: U.S. Geological Survey **Water-Data Report LA-91-1**, 435 p.

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- Arcement, G.J., Dantin, L.J., Garrison, C.R., and Lovelace, W.M., 1993, Water resources data—Louisiana, water year 1992: U.S. Geological Survey **Water-Data Report LA-92-1**, 439 p.
- Arcement, G.J., Dantin, L.J., Garrison, C.R., and Stuart, C.G., 1989, Water resources data—Louisiana, water year 1988: U.S. Geological Survey **Water-Data Report LA-88-1**, 413 p.
- Arcement, G.J., Dantin, L.J., Garrison, C.R., and Stuart, C.G., 1990, Water resources data—Louisiana, water year 1989: U.S. Geological Survey **Water-Data Report LA-89-1**, 395 p.
- Bieber, P.P., and Forbes, M.J., Jr., 1966, Pumpage of water in Louisiana, 1965: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 20**, 8 p.
- Brazelton, S.R., comp., 1994, Water resources abstracts of publications of the Louisiana Department of Transportation and Development and the U.S. Geological Survey, 1954-94: Louisiana Department of Transportation and Development **Water Resources Special Report no. 7**, 185 p.
- Cardwell, G.T., and Walter, W.H., 1979, Pumpage of water in Louisiana, 1975: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Special Report no. 2**, 15 p.
- Cardwell, G.T., McWreath, H.C., III, and Rogers, J.E., 1985, Louisiana ground-water resources, in U.S. Geological Survey, National water summary 1984--Hydrologic events, selected water-quality trends, and ground-water resources: U.S. Geological Survey **Water-Supply Paper 2275**, p. 229-235
- Carlson, D.D., Dantin, L.J., Garrison, C.R., and Stuart, C.G., 1985, Water resources data—Louisiana, water year 1985: U.S. Geological Survey **Water-Data Report LA-85-1**, 605 p.
- Carlson, D.D., Dantin, L.J., Garrison, C.R., and Stuart, C.G., 1986, Water resources data—Louisiana, water year 1986: U.S. Geological Survey **Water-Data Report LA-86-1**, 547 p.
- Carlson, D.D., Dantin, L.J., Garrison, C.R., and Stuart, C.G., 1988, Water resources data—Louisiana, water year 1987: U.S. Geological Survey **Water-Data Report LA-87-1**, 445 p.
- Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1984, Water resources data—Louisiana, water year 1984: U.S. Geological Survey **Water-Data Report LA-84-1**, 608 p.
- Collier, D.L., and Adams, P.A., eds., 1996, Water resources publications of the Louisiana District of the U.S. Geological Survey, 1904-96: Louisiana Department of Transportation and Development **Water Resources Special Report no. 12**, 155 p.
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- Dial, D.C., and Huff, G.F., 1989, Occurrence of minor elements in ground water in Louisiana including a discussion of three selected sites having elevated concentrations of barium: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 47**, 88 p.
- Ellsworth, E.A., comp., 1987, Water-resources activities of the Louisiana District in fiscal years 1986-87: U.S. Geological Survey **Open-File Report 87-225**, 53 p.
- Farrar, L.F., 1991, Water-resources activities of the Louisiana District, 1988-89: U.S. Geological Survey **Open-File Report 91-201**, 38 p.
- Garrison, C.R., Goree, B.B., Lovelace, W.M., Montgomery, P.A., and Resweber, J.C., 1998, Water resources data—Louisiana, water year 1997: U.S. Geological Survey **Water-Data Report LA-97-1**, 495 p.
- Garrison, C.R., Goree, B.B., Lovelace, W.M., Montgomery, P.A., and Resweber, J.C., 1999, Water resources data—Louisiana, water year 1998: U.S. Geological Survey **Water-Data Report LA-98-1**, 547 p.
- Garrison, C.R., Lovelace, W.M., and Montgomery, P.A., 1995, Water resources data—Louisiana, water year 1994: U.S. Geological Survey **Water-Data Report LA-94-1**, 547 p.
- Garrison, C.R., Lovelace, W.M., and Montgomery, P.A., 1996, Water resources data—Louisiana, water year 1995: U.S. Geological Survey **Water-Data Report LA-95-1**, 510 p.
- Garrison, C.R., Lovelace, W.M., and Montgomery, P.A., 1996 [1997], Water resources data—Louisiana, water year 1996: U.S. Geological Survey **Water-Data Report LA-96-1**, 500 p.
- Garrison, C.R., Seanor, R.C., Walters, D.J., and Arcement, G.J., Jr., 1995, Louisiana water-resources conditions, October 1993 through September 1994: Louisiana Department of Transportation and Development **Water Resources Special Report no. 10**, 24 p.
- Goree, B.B., Lovelace, W.M., Montgomery, P.A., Resweber, J.C., and Walters, D.J., 2000, Water resources data—Louisiana, water year 1999: U.S. Geological Survey **Water-Data Report LA-99-1**, 635 p.
- Herbert, R.A., and Ellsworth, E.A., comps., 1985, Water resources activities in Louisiana District fiscal year 1985: U.S. Geological Survey **Open-File Report 85-415**, 64 p.
- Huff, G.F., Fendick, R.B., Stuart, C.G., and Cramer, George, 1988, Louisiana ground-water quality *in* Moody, D.W., Carr, J.E., Chase, E.B., and Aronson, D.A., comps., National water summary 1986--Hydrologic events and ground-water quality: U.S. Geological Survey **Water-Supply Paper 2325**, p. 273-278.
- Huntzinger, T.L., 1982, Water resources programs of the U.S. Geological Survey related to agriculture in Louisiana: U.S. Geological Survey **Open-File Report 82-554**, 19 p.
- Lovelace, J.K., 1991, Water use in Louisiana, 1990: Louisiana Department of Transportation and Development **Water Resources Special Report no. 6**, 131 p.
- Lovelace, J.K., and Johnson, P.M., Water use in Louisiana, 1995: Louisiana Department of Transportation and Development **Water Resources Special Report no. 11**, 127 p.
- Lovelace, J.K., and Lovelace, W.M., 1995, Hydrogeologic unit nomenclature and computer codes for aquifers and confining units in Louisiana: Louisiana Department of Transportation and Development **Water Resources Special Report no. 9**, 12 p.
- Lurry, D.L., 1987, Pumpage of water in Louisiana, 1985: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Special Report no. 4**, 14 p.

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- Maher, J.C., and Stanley, T.B., Jr., [1940], Progress of ground-water investigations in Louisiana, in Louisiana Conservation Review, winter, 1939-40: Louisiana Department of Conservation, p. 35-38.
- Marshall, S.L., 1978, Index to water-resources data for Louisiana, ground-water records: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Basic Records Report no. 9**, 176 p.
- Martin, Angel, Jr., and Early, D.A., 1987, Statistical analysis of aquifer-test results for nine regional aquifers in Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 87-4001**, 26 p.
- McGee, B.D. 1997, Occurrence of nitrate in the Mississippi River alluvial aquifer in Louisiana, June through December 1993: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 61**, 21 p.
- Rollo, J.R., 1960, Ground water in Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 1**, 84 p.
- Smoot, C.W., 1986, Louisiana hydrologic atlas map no. 2: Areal extent of freshwater in major aquifers of Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 86-4150**, 1 sheet.
- Smoot, C.W., 1988, Louisiana hydrologic atlas map no. 3: Altitude of the base of freshwater in Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 86-4314**, 1 sheet.
- Smoot, C.W., 1989, Louisiana hydrologic atlas map no. 4: Geohydrologic sections of Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 87-4288**, 1 sheet.
- Smothers, D.M., and Martin, W.C., 1992, Water-resources activities in Louisiana, fiscal years 1990-92: U.S. Geological Survey **Open-File Report 92-492**, 58 p.
- Snider, J.L., 1969, Data from test drilling for public water supplies in Louisiana--July 1966 through June 1967: U.S. Geological Survey **Open-File Report**, 133 p.
- Snider, J.L., and Forbes, M.J., Jr., 1961, Pumpage of water in Louisiana, 1960: Louisiana Department of Public Works, Department of Conservation, and Louisiana Geological Survey, 6 p.
- Snider, J.L., and Ryals, G.N., 1988, Radiochemical analyses of ground water in Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 44**, 52 p.

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- Snider, J.L., Winner, M.D., Jr., and Epstein, J.B., 1962, Ground water for Louisiana's public supplies: Louisiana Department of Public Works, 267 p.
- Stallworth, G.R., and Martin, Angel, Jr., 1988, U.S. Geological Survey ground-water studies in Louisiana: U.S. Geological Survey **Open-File Report 88-115**, 2 p.
- Stringfield, V.T., and Maher, J.C., 1939, Investigation of ground-water supplies in Louisiana, *in* Louisiana Conservation Review, spring 1939: Louisiana Department of Conservation, p. 35-38.
- Stuart, C.G., and Demas, C.R., 1990, Organic chemical analyses of ground water in Louisiana, water years 1984-88: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 18**, 80 p.
- Stuart, C.G., Knochenmus, Darwin, and McGee, B.D., 1994, Guide to Louisiana's ground-water resources: U.S. Geological Survey **Water-Resources Investigations Report 94-4085**, 55 p.
- Tomaszewski, D.J., 1992, Louisiana hydrologic atlas map no. 5: Quality of freshwater in aquifers of Louisiana, 1988: U.S. Geological Survey **Water-Resources Investigations Report 90-4119**, 7 sheets.
- Turcan, A.N., Jr., 1962, Estimating water quality from electrical logs, *in* Short papers in geology and hydrology, articles 60-119: U.S. Geological Survey **Professional Paper 450-C**, article 116, p. C135-C136.
- Turcan, A.N., Jr., 1963, Estimating the specific capacity of a well, *in* Geological Survey Research 1962, Short papers in geology, hydrology and topography, articles 180-239: U.S. Geological Survey **Professional Paper 450-E**, article 222, p. E145-E148.
- Turcan, A.N., Jr., 1966, Calculation of water quality from electrical logs--theory and practice: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 19**, 23 p.
- U.S. Geological Survey, comp., 1975, Ground-water levels in Louisiana for wells measured through 1974: Louisiana Department of Public Works **Water Resources Basic Records Report no. 7**, 548 p.
- U.S. Geological Survey, 1984, National water summary 1983--Hydrologic events, and water issues: U.S. Geological Survey **Water-Supply Paper 2250**, 253 p.
- U.S. Geological Survey, 1995, U.S. Geological Survey Programs in Louisiana: U.S. Geological Survey **Fact Sheet FS-018-95**, 4 p.
- U.S. Geological Survey, 1996, U.S. Geological Survey Programs in Louisiana: U.S. Geological Survey **Fact Sheet FS-018-96**, 4 p.
- U.S. Geological Survey, 1999, Louisiana: U.S. Geological Survey **Fact Sheet FS-018-95**, 4 p.
- Veatch, A.C., 1905, Louisiana and southern Arkansas, *in* Underground waters of eastern United States: U.S. Geological Survey **Water-Supply Paper 114**, p. 179-187.
- Walter, W.H., 1982, Pumpage of water in Louisiana, 1980: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Special Report no. 3**, 15 p.
- Winslow, A.G., Hillier, D.E., and Turcan, A.N., Jr., 1968, Saline ground water in Louisiana: U.S. Geological Survey **Hydrologic Investigations Atlas HA-310**, 4 sheets.

GROUND-WATER AND RELATED PUBLICATIONS BY AQUIFER

GROUND-WATER AND RELATED PUBLICATIONS BY AQUIFER

The aquifers and aquifer systems listed in this section are the Red River alluvial aquifer, Mississippi River alluvial aquifer, Upland terrace aquifer, Chicot aquifer system, Chicot equivalent aquifer system, Evangeline aquifer, Evangeline equivalent aquifer system, Jasper aquifer system, Jasper equivalent aquifer system, Catahoula aquifer, Cockfield aquifer, Sparta aquifer, and Carrizo-Wilcox aquifer. A hydrogeologic column of aquifers and aquifer systems in Louisiana is shown in figure 3. Major aquifers and aquifer systems in Louisiana for which many studies have been conducted are shown in figure 4. The three equivalent aquifer systems in southeastern Louisiana, which are listed in this report, are included in the Southern Hills regional aquifer system (figs. 3 and 4.)

The following sources were used to determine which parishes to list in the section covering each aquifer: well information retrieved from the Ground Water Site Inventory data base in the Louisiana District office, water use information from Lovelace and Johnson, 1996, and information gleaned from maps in reports by Smoot, 1986; Tomaszewski, 1992; and Stuart and others, 1994. Figures 5-17 highlight parishes for which reports are listed in each section.

Parishes are listed alphabetically. Reports with more than a two-parish study area, not named in title, are listed alphabetically by senior author in the multiparish section. “No entry” means there are no publications under the parish category, but publications may be found under the multiparish or statewide categories. Many of the reports with statewide application (beginning on page 44 in the previous section of this report) relate to all aquifers and thus are not repeated in this section. Table 1 (at the end of this section) summarizes numbers and types of reports that pertain to each parish.

RED RIVER ALLUVIAL AQUIFER

Avoyelles

Maher, J.C., 1939, Fluoride in the ground water of Avoyelles and Rapides Parishes, Louisiana: Louisiana Department of Conservation **Geological Pamphlet no. 1**, 23 p.

Marie, J.R., 1971, Ground-water resources of Avoyelles Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 15**, 70 p.

Smoot, C.W., Seanor, R.C., and Huff, G.F., 1994, Quality of water in the Red River alluvial aquifer, pool 1, Red River waterway area, Vick, Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 93-4184**, 49 p.

Bossier

Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.

Snider, J.L., 1983, Ground-water resources of the Fillmore-Haughton-Red Chute area, Bossier and Webster Parishes, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 32**, 21 p.

Caddo

Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.

		Hydrogeologic Unit									
		Central and southwestern Louisiana			Southeastern Louisiana						
System	Series	Stratigraphic Unit	Northern Louisiana	Aquifer system or confining unit	Aquifer or confining unit	Aquifer system or confining unit	Baton Rouge area				
Quaternary	Pleistocene	Red River alluvial deposits Mississippi River alluvial deposits Northern Louisiana terrace deposits Unnamed Pleistocene deposits	Red River alluvial aquifer or surficial confining unit Mississippi River alluvial aquifer or surficial confining unit Upland terrace aquifer or surficial confining unit	Chicot aquifer system or surficial confining unit	Lake Charles area "200-foot" sand unit "500-foot" sand unit "700-foot" sand unit	Chicot equivalent aquifer system or surficial confining unit	Mississippi River alluvial aquifer or surficial confining unit Shallow sand "400-foot" sand "600-foot" sand				
				Upper sand unit Lower sand unit	Upland terrace Upper Ponchatoula aquifer	Gramercy aquifer ² Norco aquifer ² Gonzales-New Orleans aquifer ² "1,200-foot" sand ²					
Tertiary	Pliocene	Blounts Creek Member	Pliocene-Miocene aquifers are absent in this area	Evangeline aquifer or surficial confining unit	Evangeline aquifer or surficial confining unit	Evangeline equivalent aquifer system or surficial confining unit	"800-foot" sand "1,000-foot" sand "1,200-foot" sand "1,500-foot" sand "1,700-foot" sand				
								Lower Ponchatoula aquifer Big Branch aquifer Kentwood aquifer Abita aquifer Covington aquifer Slideil aquifer			
	Miocene	Fleming Formation	Castor Creek Member	Pliocene-Miocene aquifers are absent in this area	Castor Creek confining unit	Castor Creek confining unit	Unnamed confining unit	"2,000-foot" sand "2,400-foot" sand "2,800-foot" sand			
									Jasper aquifer system or surficial confining unit	Jasper equivalent aquifer system or surficial confining unit	
									Williamson Creek Member Dough Hills Member Camahan Bayou Member	Williamson Creek aquifer Dough Hills confining unit Camahan Bayou aquifer	
									Lena Member	Lena confining unit	
	Oligocene	Catahoula Formation	Catahoula Formation	Pliocene-Miocene aquifers are absent in this area	Catahoula aquifer	Catahoula aquifer	Catahoula equivalent aquifer system or surficial confining unit	Tchelfuncite aquifer Hammond aquifer Amite aquifer Ramsay aquifer Franklinton aquifer			
									Unnamed confining unit		
	Eocene	Claborne Group	Vicksburg Group, undifferentiated Jackson Group, undifferentiated Cockfield Formation Cook Mountain Formation Sparta Sand Cane River Formation Carrizo Sand	Vicksburg-Jackson confining unit	Cockfield aquifer or surficial confining unit Cook Mountain aquifer or confining unit Sparta aquifer or surficial confining unit Cane River aquifer or confining unit Carrizo-Wilcox aquifer or surficial confining unit Midway confining unit	Cockfield aquifer or surficial confining unit Cook Mountain aquifer or confining unit Sparta aquifer or surficial confining unit Cane River aquifer or confining unit Carrizo-Wilcox aquifer or surficial confining unit Midway confining unit	Cockfield aquifer or surficial confining unit Cook Mountain aquifer or confining unit Sparta aquifer or surficial confining unit Cane River aquifer or confining unit Carrizo-Wilcox aquifer or surficial confining unit Midway confining unit	No freshwater occurs in older aquifers			
									Midway Group, undifferentiated		
Paleocene									Wilcox Group, undifferentiated	Midway Group, undifferentiated	Midway confining unit

¹Clay units separating aquifers in southeastern Louisiana are discontinuous and unnamed.
²Four aquifers as a group are called the New Orleans aquifer system.

Figure 3. Hydrogeologic column of aquifers and aquifer systems in Louisiana (modified from Stuart and others, 1994).

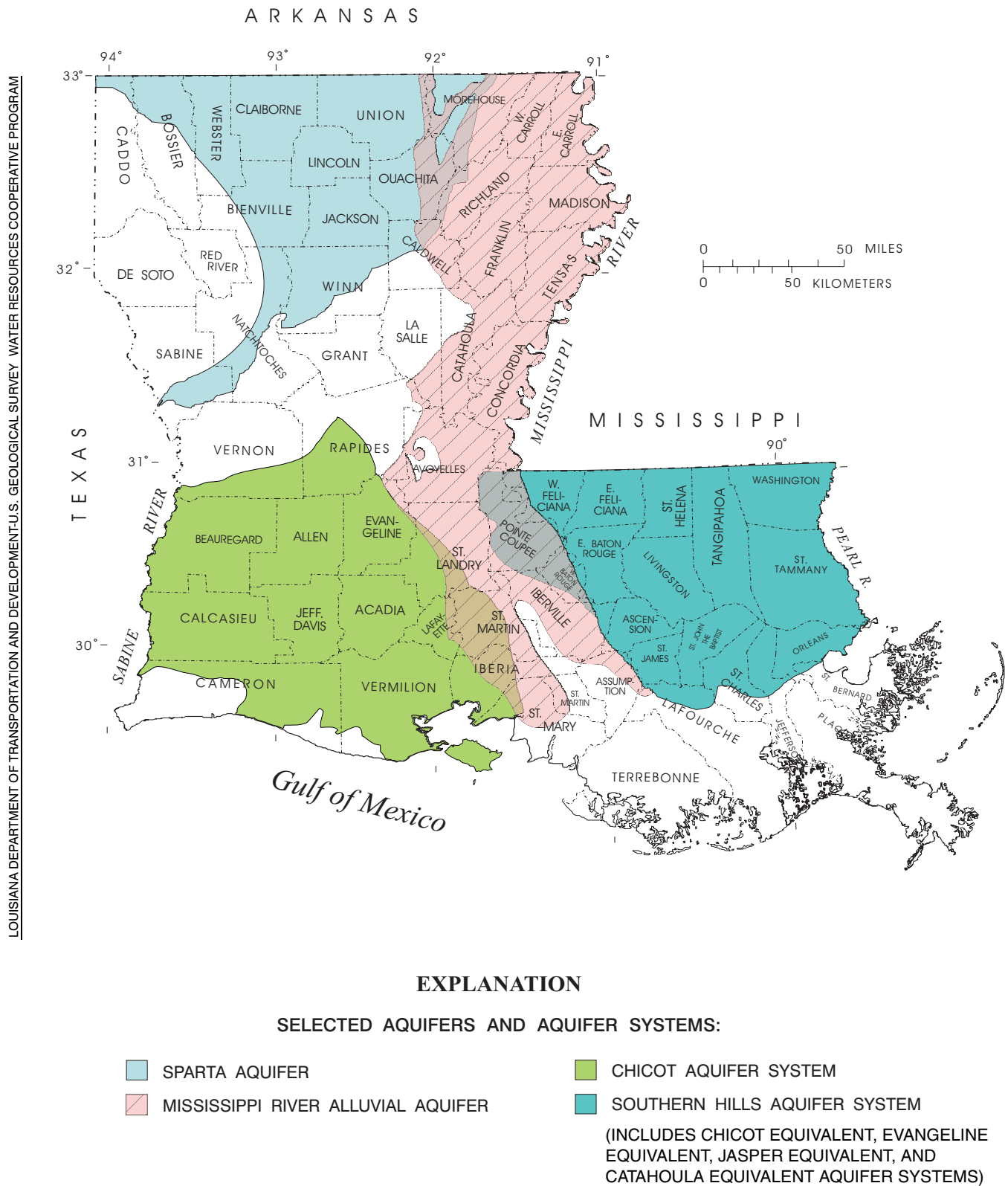


Figure 4. Major aquifers and aquifer systems in Louisiana for which many studies have been conducted (modified from Stuart and others, 1994).

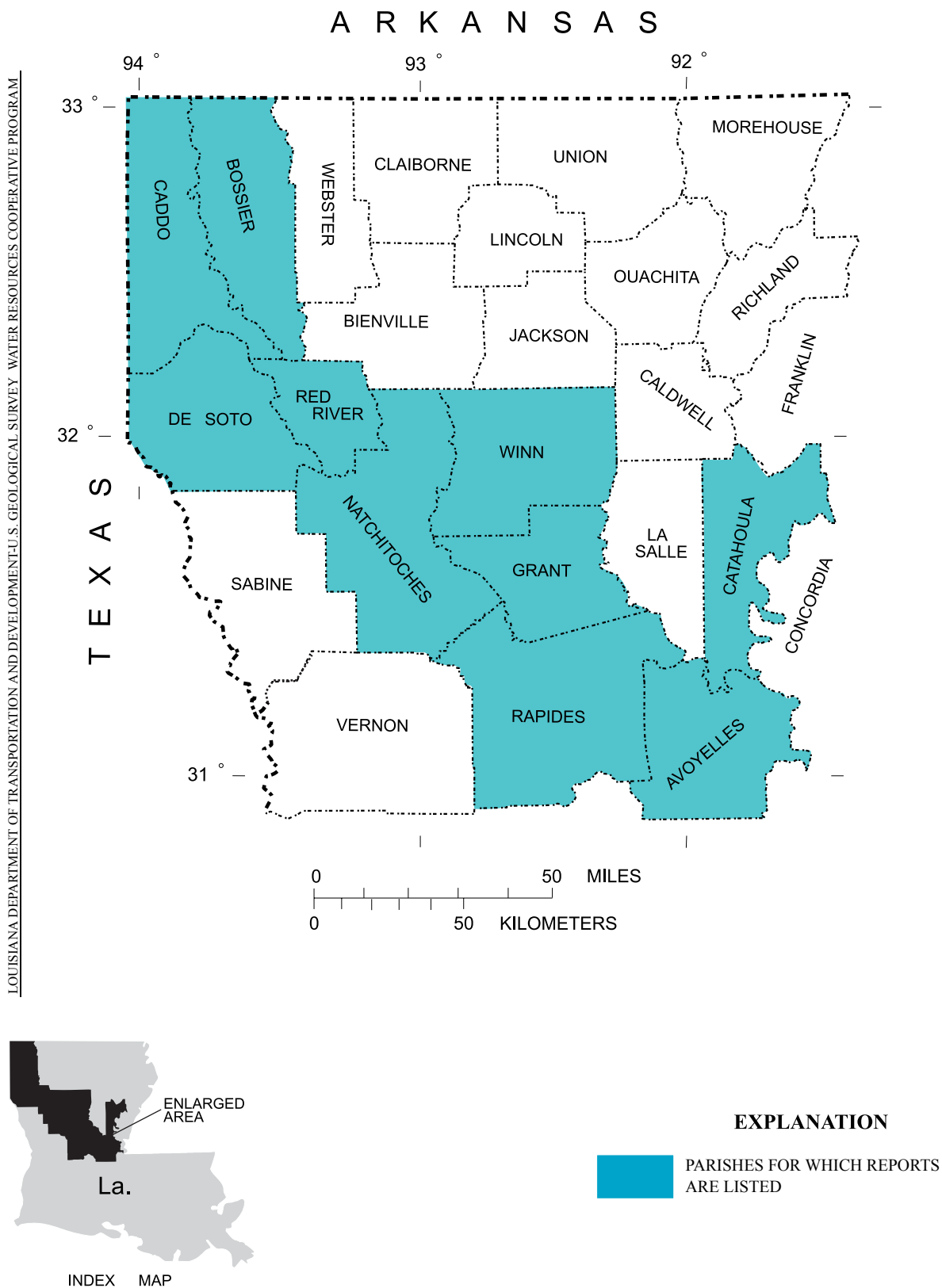


Figure 5. Parishes for which reports are listed on the Red River alluvial aquifer in Louisiana.

Caddo — continued

Rapp, T.R., 1996, Ground-water resources of Caddo Parish, Louisiana, 1992: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 58**, 89 p.

Catahoula

Marie, J.R., [1964], Water, *in* Catahoula Parish Resources and Facilities: Louisiana Department of Public Works and Catahoula Parish Development Board, p. 24-27.

Smoot, C.W., Seanor, R.C., and Huff, G.F., 1994, Quality of water in the Red River alluvial aquifer, pool 1, Red River waterway area, Vick, Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 93-4184**, 49 p.

U.S. Geological Survey, [Turcan, A.N., Jr.], 1949, Water, *in* Catahoula Parish Resources and Facilities: Louisiana Department of Public Works and Catahoula Parish Planning Board, p. 30-35.

De Soto

Page, L.V., and Pre e, H.L., Jr., 1964, Water resources of De Soto Parish, Louisiana: U.S. Geological Survey **Water-Supply Paper 1774**, 152 p.

Page, L.V., and Pre e, H.L., Jr., [no date], Water, *in* De Soto Parish, Resources and Facilities: Louisiana Department of Public Works and De Soto Parish Planning Board, p. 28-29.

Snider, J.L., 1982, Premining hydrology of the lignite area in southeastern De Soto Parish, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 29**, 40 p.

Snider, J.L., and Covay, K.J., 1987, Premining hydrology of the Logansport lignite area, De Soto Parish, Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 41**, 65 p.

U.S. Geological Survey, [Turcan, A.N., Jr.], [1949], Water, *in* De Soto Parish, Resources and Facilities: Louisiana Department of Public Works and De Soto Parish Planning Board.

Grant

Maher, J.C., 1940, Ground water in Grant and La Salle Parishes, Louisiana, *in* Louisiana Conservation Review, spring 1940: Louisiana Department of Conservation, p. 36-41.

Maher, J.C., 1940, Memorandum on the ground-water supplies in the Colfax area, Louisiana: U.S. Geological Survey **Open-File Report**, 1 p.

Maher, J.C., 1941, Ground-water resources of Grant and La Salle Parishes, Louisiana: Louisiana Department of Minerals, **Geological Bulletin no. 20**, 95 p.

Seanor, R.C., Lovelace, J.K., and Smoot, C.W., 1996, Relation of water levels in the Red River alluvial aquifer to rainfall and stages of the Red River, pool 2, Red River waterway, Alexandria area, Louisiana, 1971-91: U.S. Geological Survey **Water-Resources Investigations Report 96-4053**, 38 p.

U.S. Geological Survey, [Jones, P.H.], 1947, Water, *in* Grant Parish Resources and Facilities: Louisiana Department of Public Works and Grant Parish Planning Board.

Natchitoches

- Maher, J.C., and Jones, P.H., 1945, Ground water and geologic structure of Natchitoches area, Louisiana: Bulletin of American Association of Petroleum Geologists, v. 29, no. 1, p. 23-44.
- Maher, J.C., and Jones, P.H., 1949, Ground-water exploration in the Natchitoches area, Louisiana: U.S. Geological Survey **Water-Supply Paper 968-D**, p. D159-D211.
- Newcome, Roy, Jr., Page, L.V., and Sloss, Raymond, 1963, Water resources of Natchitoches Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 4**, 189 p.
- U.S. Geological Survey, [Newcome, Roy, Jr.], [1957], Water, *in* Natchitoches Parish Resources and Facilities: Louisiana Department of Public Works and Natchitoches Parish Development Board, p. 46-58.

Rapides

- Klug, M.L., 1955, Geology and ground-water resources of the Alexandria area, Rapides Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 3**, 23 p.
- Maher, J.C., 1939, Fluoride in the ground water of Avoyelles and Rapides Parishes, Louisiana: Louisiana Department of Conservation **Geological Pamphlet no. 1**, 23 p.
- Maher, J.C., 1940, Ground-water resources of Rapides Parish, Louisiana: Louisiana Department of Conservation **Geological Bulletin no. 17**, 100 p.
- Maher, J.C., 1940, Preliminary report on ground-water conditions at Alexandria, Louisiana: Louisiana Department of Conservation **Geological Pamphlet no. 2**, 54 p.
- Maher, J.C., 1942, Ground-water conditions at Camp Claiborne, Louisiana: U.S. Geological Survey **Open-File Report**, 54 p.
- Maher, J.C., 1942, Ground-water conditions at Camp Livingston, Camp Beauregard, and Esler Field, Louisiana: U.S. Geological Survey **Open-File Report**, 51 p.
- Maher, J.C., 1942, Memorandum on ground-water conditions in the Alexandria area, Louisiana: U.S. Geological Survey **Open-File Report**, 3 p.
- Maher, J.C., and Jones, P.H., 1945, Ground-water exploration at Alexandria, Louisiana: Economic Geology, v. 40, no. 3, May 1945, p. 164-182.
- Newcome, Roy, Jr., 1961, Sources of emergency water supply in the Alexandria area, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works, 7 p.
- Newcome, Roy, Jr., and Sloss, Raymond, 1966, Water resources of Rapides Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 8**, 104 p.
- Rogers, J.E., 1981, Water resources of the Kisatchie well-field area near Alexandria, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 26**, 57 p.

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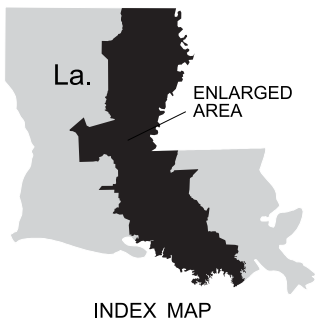
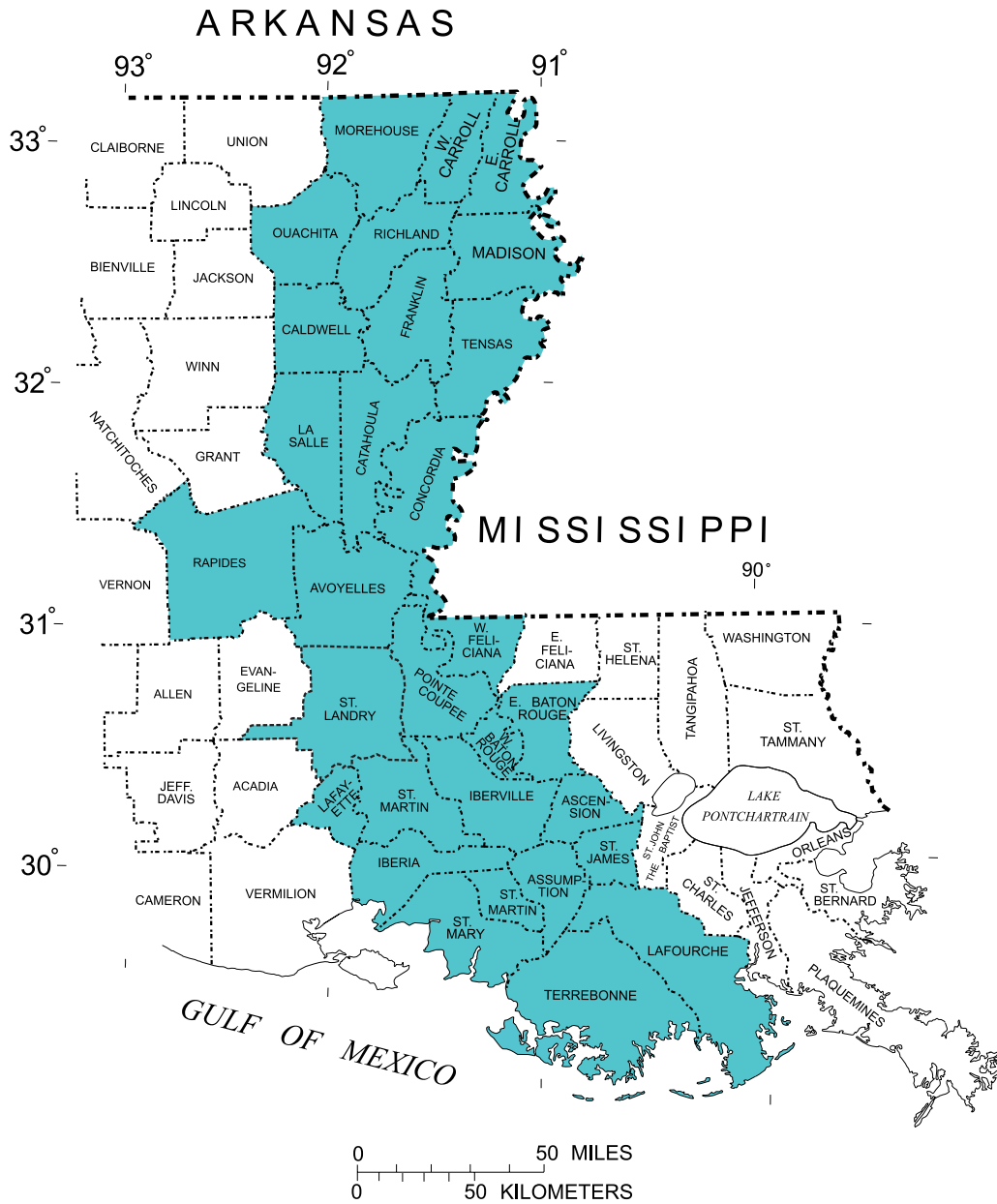
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LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT-U.S. GEOLOGICAL SURVEY WATER RESOURCES COOPERATIVE PROGRAM



EXPLANATION

PARISHES FOR WHICH REPORTS ARE LISTED

Figure 6. Parishes for which reports are listed on the Mississippi River alluvial aquifer in Louisiana.

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- U.S. Geological Survey, 1977, Water resources data for Louisiana, water year 1977, volume 2. Southern Louisiana: U.S. Geological Survey **Water-Data Report LA-77-2**, 393 p.
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- U.S. Geological Survey, 1979, Water resources data for Louisiana, water year 1979, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-79-1**, 426 p.

Multiparish — continued

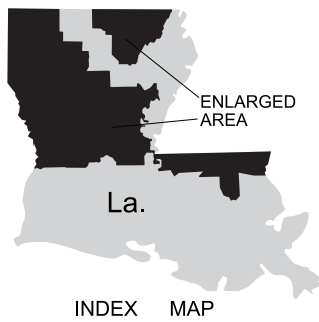
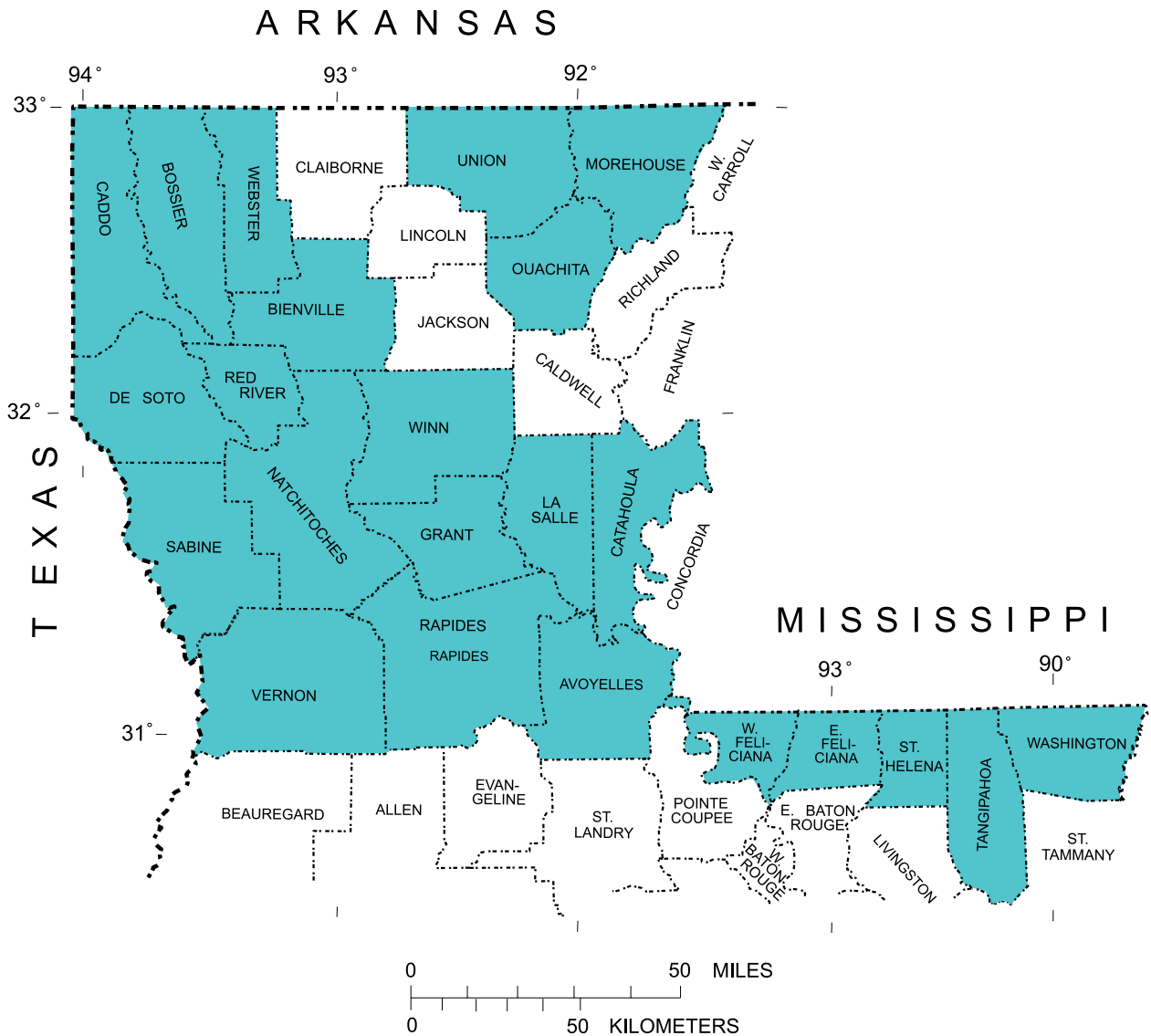
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- U.S. Geological Survey, 1980, Water resources data for Louisiana, water year 1980, volume 2. Southern Louisiana: U.S. Geological Survey **Water-Data Report LA-80-2**, 371 p.
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- U.S. Geological Survey, 1981, Water resources data—Louisiana, water year 1981, volume 3. Coastal Louisiana: U.S. Geological Survey **Water-Data Report LA-81-3**, 218 p.
- Veatch, A.C., 1905, Louisiana and southern Arkansas, *in* Underground waters of eastern United States: U.S. Geological Survey **Water-Supply Paper 114**, p. 179-187.
- Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana and southern Arkansas: U.S. Geological Survey **Professional Paper 46**, 422 p.
- Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana, with notes on adjoining districts; *in* Geological Survey of Louisiana, report of 1905: Louisiana State Experiment Station, Louisiana Geological Survey **Bulletin IV**, p. 261-457.
- Whitfield, M.S., Jr., 1975, Geohydrology and water quality of the Mississippi River alluvial aquifer, northeastern Louisiana: Louisiana Department of Public Works **Water Resources Technical Report no. 10**, 29 p.

UPLAND TERRACE AQUIFER

Avoyelles

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- Marie, J.R., 1971, Ground-water resources of Avoyelles Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 15**, 70 p.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT—U.S. GEOLOGICAL SURVEY WATER RESOURCES COOPERATIVE PROGRAM



EXPLANATION

PARISHES FOR WHICH REPORTS ARE LISTED

Figure 7. Parishes for which reports are listed on the Upland terrace aquifer in Louisiana.

Bienville

U.S. Geological Survey, [Turcan, A.N., Jr.], [1952], Water, *in* Bienville Parish Resources and Facilities: Louisiana Department of Public Works and Bienville Parish Development Board, p. 50-56.

Bossier

Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.

Snider, J.L., 1983, Ground-water resources of the Fillmore-Haughton-Red Chute area, Bossier and Webster Parishes, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 32**, 21 p.

Caddo

Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.

Rapp, T.R., 1996, Ground-water resources of Caddo Parish, Louisiana, 1992: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 58**, 89 p.

Catahoula

Marie, J.R., [1964], Water, *in* Catahoula Parish Resources and Facilities: Louisiana Department of Public Works and Catahoula Parish Development Board, p. 24-27.

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De Soto

Page, L.V., and Préé, H.L., Jr., 1964, Water resources of De Soto Parish, Louisiana: U.S. Geological Survey **Water-Supply Paper 1774**, 152 p.

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East Feliciana

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Morgan, C.O., 1963, Ground-water resources of East Feliciana and West Feliciana Parishes, Louisiana: Louisiana Department of Public Works, 58 p.

Walters, D.J., and Lovelace, W.M., 1998, Ground-water-quality data for East and West Baton Rouge, East and West Feliciana, and Pointe Coupee Parishes, Louisiana, water years 1944-97: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 21**, 54 p., 1 pl.

Grant

Maher, J.C., 1940, Ground water in Grant and La Salle Parishes, Louisiana, in Louisiana Conservation Review, spring 1940: Louisiana Department of Conservation, p. 36-41.

Maher, J.C., 1940, Memorandum on the ground-water supplies in the Colfax area, Louisiana: U.S. Geological Survey **Open-File Report**, 1 p.

Maher, J.C., 1941, Ground-water resources of Grant and La Salle Parishes, Louisiana: Louisiana Department of Minerals, **Geological Bulletin no. 20**, 95 p.

Maher, J.C., 1942, Ground-water conditions at Camp Livingston, Camp Beauregard, and Esler Field, Louisiana: U.S. Geological Survey **Open-File Report**, 51 p.

U.S. Geological Survey, [Jones, P.H.], 1947, Water, in Grant Parish Resources and Facilities: Louisiana Department of Public Works and Grant Parish Planning Board.

La Salle

Maher, J.C., 1940, Ground water in Grant and La Salle Parishes, Louisiana, in Louisiana Conservation Review, spring 1940: Louisiana Department of Conservation, p. 36-41.

Maher, J.C., 1941, Ground-water resources of Grant and La Salle Parishes, Louisiana: Louisiana Department of Minerals, **Geological Bulletin no. 20**, 95 p.

Sloss, Raymond, and May, H.G., [1961], Water, in La Salle Parish Resources and Facilities: Louisiana Department of Public Works and La Salle Parish Development Board, p. 47-57.

Morehouse

Sanford, T.H., Jr., 1973, Ground-water resources of Morehouse Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 19**, 90 p.

U.S. Geological Survey, [Jones, P.H.], [1950], Water, in Morehouse Parish Resources and Facilities: Louisiana Department of Public Works and Morehouse Parish Development Board, p. 37-40.

Natchitoches

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- Newcome, Roy, Jr., Page, L.V., and Sloss, Raymond, 1963, Water resources of Natchitoches Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 4**, 189 p.
- U.S. Geological Survey, [Newcome, Roy, Jr.], [1957], Water, *in* Natchitoches Parish Resources and Facilities: Louisiana Department of Public Works and Natchitoches Parish Development Board, p. 46-58.

Ouachita

- Jones, P.H., 1945, Water, *in* Ouachita Parish Resources and Facilities: Louisiana Department of Public Works and Ouachita Parish Planning Board, p. 22-26.
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- Rogers, J.E., Calandro, A.J., and Gaydos, M.W., 1972, Water resources of Ouachita Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 14**, 118 p.
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Rapides

- Klug, M.L., 1955, Geology and ground-water resources of the Alexandria area, Rapides Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 3**, 23 p.
- Maher, J.C., 1939, Fluoride in the ground water of Avoyelles and Rapides Parishes, Louisiana: Louisiana Department of Conservation **Geological Pamphlet no. 1**, 23 p.
- Maher, J.C., 1940, Ground-water resources of Rapides Parish, Louisiana: Louisiana Department of Conservation **Geological Bulletin no. 17**, 100 p.
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- Maher, J.C., 1942, Ground-water conditions at Camp Claiborne, Louisiana: U.S. Geological Survey **Open-File Report**, 54 p.
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Rapides — continued

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- Rogers, J.E., 1981, Water resources of the Kisatchie well-field area near Alexandria, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 26**, 57 p.
- Smoot, C.W., and Fendick, R.B., Jr., 1998, Hydrogeology and water resources of the Alexandria area, Rapides Parish, Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 63**, 36 p., 1 pl.
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Red River

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Sabine

- Page, L.V., Newcome, Roy, Jr., and Graeff, G.D., Jr., 1963, Water resources of Sabine Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 3**, 146 p.
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St. Helena

- Tomaszewski, D.J., 1988, Ground-water hydrology of Livingston, St. Helena, and parts of Ascension and Tangipahoa Parishes, southeastern Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 43**, 54 p.

Tangipahoa

Nyman, D.J., and Fayard, L.D., 1978, Ground-water resources of Tangipahoa and St. Tammany Parishes, southeastern Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 15**, 76 p.

Tomaszewski, D.J., 1988, Ground-water hydrology of Livingston, St. Helena, and parts of Ascension and Tangipahoa Parishes, southeastern Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 43**, 54 p.

Union

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Klug, M.L., 1956, Memorandum on the ground-water resources of the Leesville area, Vernon Parish, Louisiana: U.S. Geological Survey **Open-File Report**, 25 p.

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Maher, J.C., Guyton, W.F., Drescher, W.J., and Jones, P.H., 1955, Ground-water conditions at Camp Polk and North Camp Polk, Louisiana: U.S. Geological Survey **Open-File Report**, 67 p.

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Rogers, J.E., and Calandro, A.J., 1965, Water resources of Vernon Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 6**, 104 p.

U.S. Geological Survey, [Jones, P.H.], 1955, Water, *in* Vernon Parish Resources and Facilities: Louisiana Department of Public Works and Vernon Parish Planning Board.

Whiteman, C.D., Jr., Calandro, A.J., and Broussard, W.L., 1970, Water resources of the Slagle-Simpson-Flatwoods area, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 24**, 23 p.

Washington

Case, H.L., III, 1979, Ground-water resources of Washington Parish, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 18**, 33 p.

Halford, K.J., Benton, O.L., and Demcheck, D.K., 1995, Movement and fate of fecal-coliform bacteria through a shallow aquifer system in southeastern Louisiana, 1991: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 56**, 52 p.

Washington — continued

- U.S. Geological Survey, [Taylor, J.C., Jr.], 1945, Water, *in* Washington Parish Resources and Facilities: Louisiana Department of Public Works and Washington Parish Planning Board, p. 31-32, app., p. III-IV.
- U.S. Geological Survey, [Cardwell, G.T.], [1958], Water, *in* Washington Parish Resources and Facilities: Louisiana Department of Public Works and Washington Parish Development Board, p. 27-39.

Webster

- Snider, J.L., 1983, Ground-water resources of the Fillmore-Haughton-Red Chute area, Bossier and Webster Parishes, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 32**, 21 p.
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West Feliciana

- Morgan, C.O., 1963, Ground-water resources of East Feliciana and West Feliciana Parishes, Louisiana: Louisiana Department of Public Works, 58 p.
- Walters, D.J., and Lovelace, W.M., 1998, Ground-water-quality data for East and West Baton Rouge, East and West Feliciana, and Pointe Coupee Parishes, Louisiana, water years 1944-97: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 21**, 54 p., 1 pl.

Winn

- Poole, J.L., [1955], Water, *in* Winn Parish Resources and Facilities: Louisiana Department of Public Works and Winn Parish Development Board, p. 28-34.

Multiparish

- Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1982, Water resources data—Louisiana, water year 1982, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-82-1**, 422 p.
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- Harris, G.D., 1904, Underground waters of southern Louisiana, *with discussions of their uses for water supplies and for rice irrigation*, by M.L. Fuller: U.S. Geological Survey **Water-Supply Paper 101**, 98 p.

Multiparish — continued

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- Lurry, D.L., 1985, Public water supplies in Louisiana, volume 1: Northern Louisiana: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 13**, 119 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1989, Geohydrology and regional ground-water flow of the coastal lowlands aquifer system in parts of Louisiana, Mississippi, Alabama, and Florida--A preliminary analysis: U.S. Geological Survey **Water-Resources Investigations Report 88-4100**, 88 p.
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- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1991, Hydrology of the coastal lowlands aquifer system in parts of Alabama, Florida, Louisiana, and Mississippi: U.S. Geological Survey **Open-File Report 91-72**, 115 p.
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- Ryals, G.N., 1982, Ground-water resources of the Arcadia-Minden area, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 28**, 35 p.
- Snider, J.L., and Sanford, T.H., Jr., 1981, Water resources of the terrace aquifer, central Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 25**, 48 p.
- Stephens, J.W., 1976, Records of wells, water-level measurements, and drillers' logs, Red River Valley, Louisiana: U.S. Geological Survey **Open-File Report 76-759**, 335 p.
- U.S. Geological Survey, 1976, Water resources data for Louisiana, water year 1976, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-76-1**, 463 p.
- U.S. Geological Survey, 1977, Water resources data for Louisiana, water year 1977, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-77-1**, 405 p.
- U.S. Geological Survey, 1978, Water resources data for Louisiana, water year 1978, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-78-1**, 412 p.
- U.S. Geological Survey, 1979, Water resources data for Louisiana, water year 1979, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-79-1**, 426 p.
- U.S. Geological Survey, 1980, Water resources data for Louisiana, water year 1980, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-80-1**, 526 p.
- U.S. Geological Survey, 1981, Water resources data—Louisiana, water year 1981, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-81-1**, 424 p.

Multiparish — continued

Veatch, A.C., 1905, Louisiana and southern Arkansas, *in* Underground waters of eastern United States: U.S. Geological Survey **Water-Supply Paper 114**, p. 179-187.

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Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana, with notes on adjoining districts; *in* Geological Survey of Louisiana, report of 1905: Louisiana State Experiment Station, Louisiana Geological Survey **Bulletin IV**, p. 261-457.

CHICOT AQUIFER SYSTEM

Acadia

Stanley, T.B., Jr., and Maher, J.C., 1944, Ground-water resources of Jefferson Davis and Acadia Parishes, Louisiana: Louisiana Department of Public Works, 93 p.

U.S. Geological Survey [Jones, P.H.], 1946, Water, *in* Acadia Parish Resources and Facilities: Louisiana Department of Public Works and Acadia Parish Planning Board, p. 30-42.

Allen

Carlson, D.D., and Marshall, S.L., 1980, Water resources, *in* Soil survey of Allen Parish, Louisiana: U.S. Department of Agriculture, Soil Conservation Service, 5 p.

Beauregard

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Calcasieu

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Jones, P.H., 1950, Ground-water conditions in the Lake Charles area, Louisiana: U.S. Geological Survey **Open-File Report**, 16 p.

Lovelace, J.K., 1998, Distribution of saltwater in the Chicot aquifer system in the Calcasieu Parish area, Louisiana, 1995-96: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 62**, 59 p.

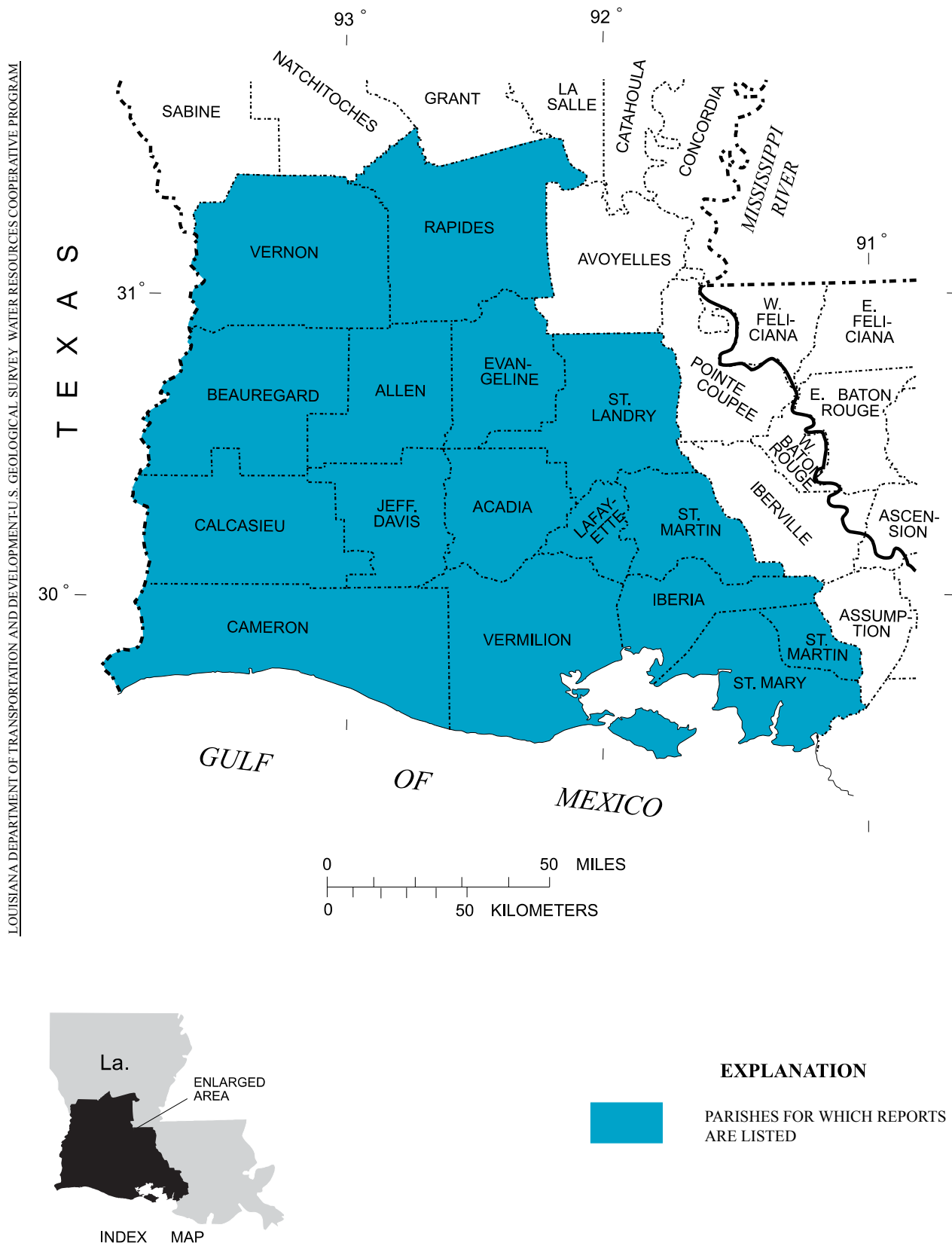


Figure 8. Parishes for which reports are listed on the Chicot aquifer system in Louisiana.

Calcasieu — continued

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- Trudeau, D.A., 1994, Geohydrology and the occurrence of selected chemical contaminants at a hazardous-waste disposal site, Calcasieu Parish, Louisiana, 1984-85: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 53**, 54 p.
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Cameron

- Calandro, A.J. and Harder, A.H., [1960], Water, *in* Cameron Parish Resources and Facilities: Louisiana Department of Public Works and Cameron Parish Development Board, p. 46-60.
- U.S. Geological Survey, [Jones, P.H.], [1947], Water, *in* Cameron Parish Resources and Facilities: Louisiana Department of Public Works and Cameron Parish Development Board.

Evangeline

- Hosman, R.L., Broussard, W.L., and Calandro, A.J., 1970, Water resources of northwestern St. Landry Parish and vicinity, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 23**, 29 p.
- Turcan, A.N., Jr., 1948, Ground water in Evangeline Parish, Louisiana: U.S. Geological Survey **Open-File Report**, 1 p.
- U.S. Geological Survey [Whitfield, M.S., Jr.], 1974, Water supply, *in* Soil survey of Evangeline Parish, Louisiana: U.S. Department of Agriculture, Soil Conservation Service, p. 65-66.

Iberia

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Jefferson Davis

- Covay, K.J., Sturrock, A.M., Jr., and Sasser, D.C., 1992, Water requirements for growing rice in southwestern Louisiana, 1985-86: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 52**, 14 p.
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- Sloss, Raymond, Broussard, W.L., and Whitman, H.M., [1964], Water, *in* Jefferson Davis Parish Resources and Facilities: Louisiana Department of Public Works and Jefferson Davis Parish Development Board, p. 29-41.
- Stanley, T.B., Jr., and Maher, J.C., 1944, Ground-water resources of Jefferson Davis and Acadia Parishes, Louisiana: Louisiana Department of Public Works, 93 p.

Lafayette

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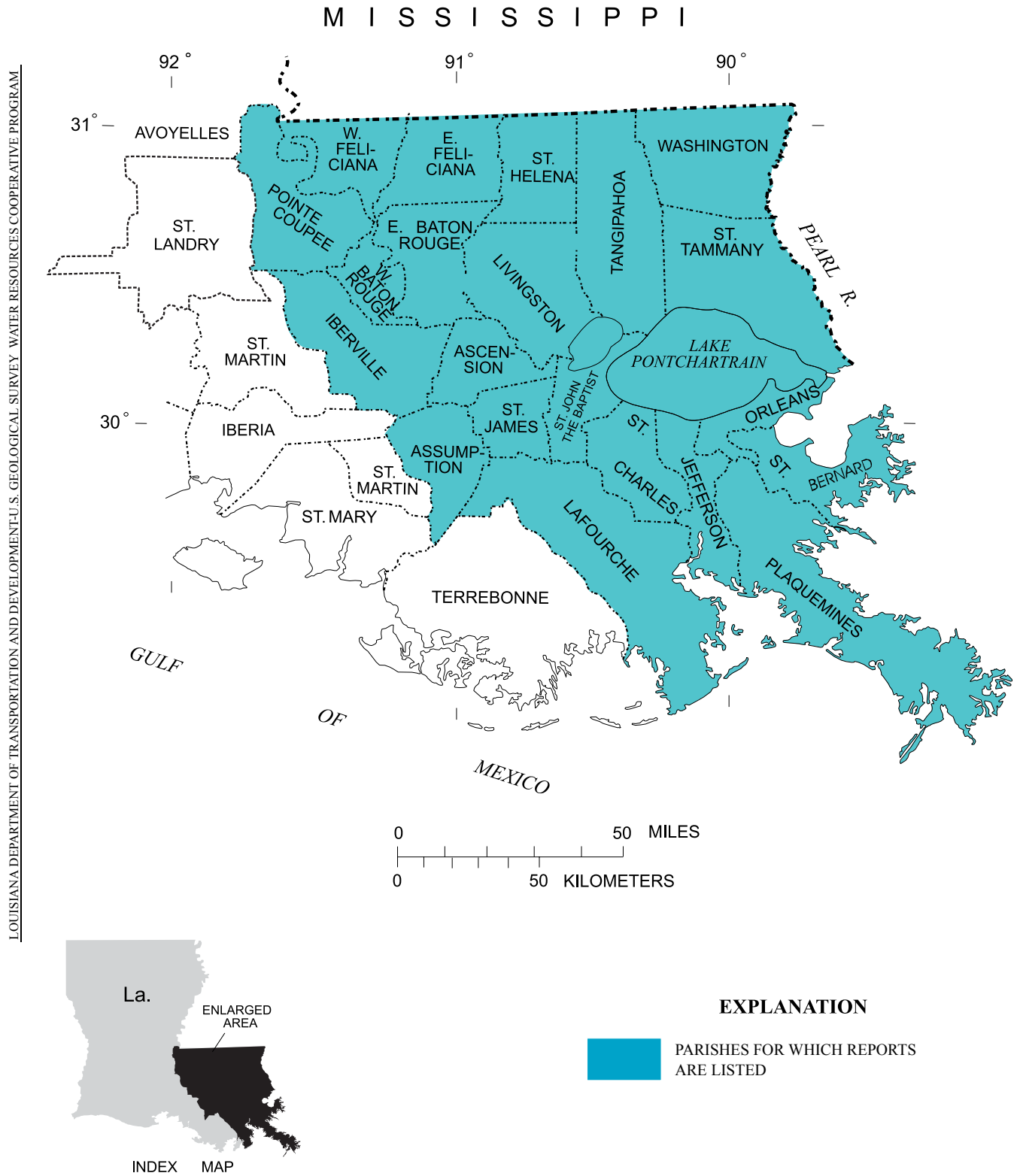


Figure 9. Parishes for which reports are listed on the Chicot equivalent aquifer system in Louisiana.

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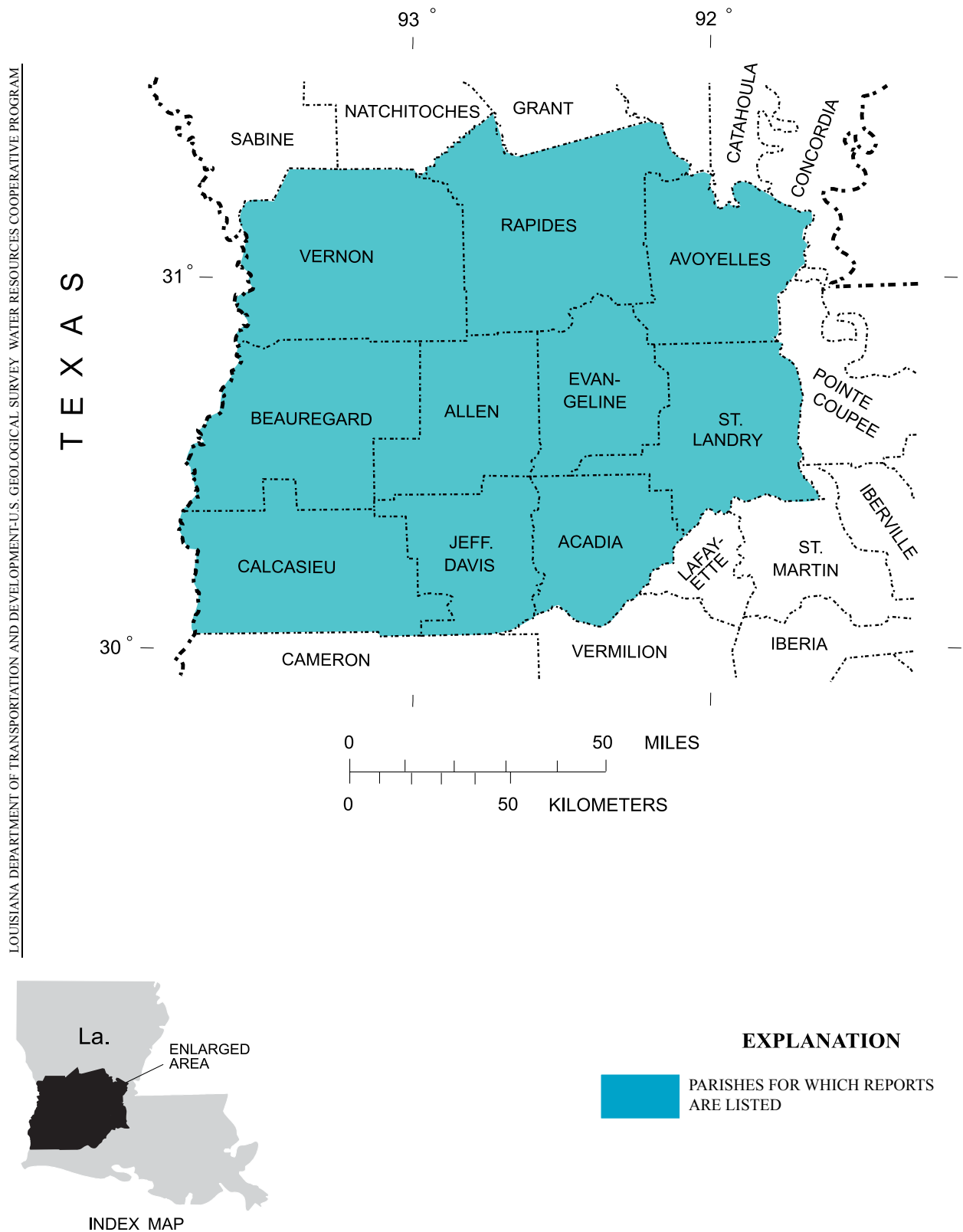


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Figure 11. Parishes for which reports are listed on the Evangeline equivalent aquifer system in Louisiana.

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- U.S. Geological Survey, 1980, Water resources data for Louisiana, water year 1980, volume 2. Southern Louisiana: U.S. Geological Survey **Water-Data Report LA-80-2**, 371 p.
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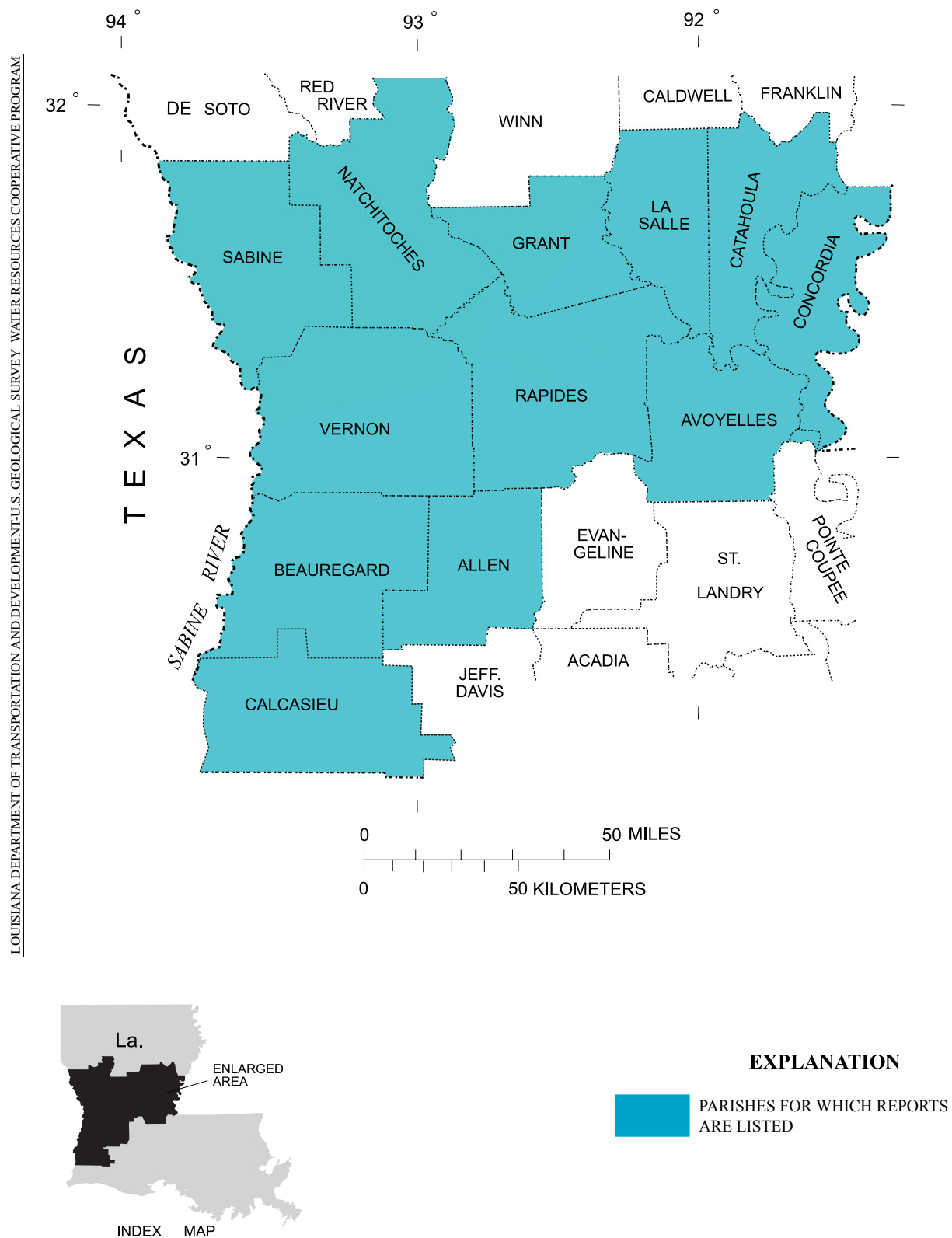


Figure 12. Parishes for which reports are listed on the Jasper aquifer system.

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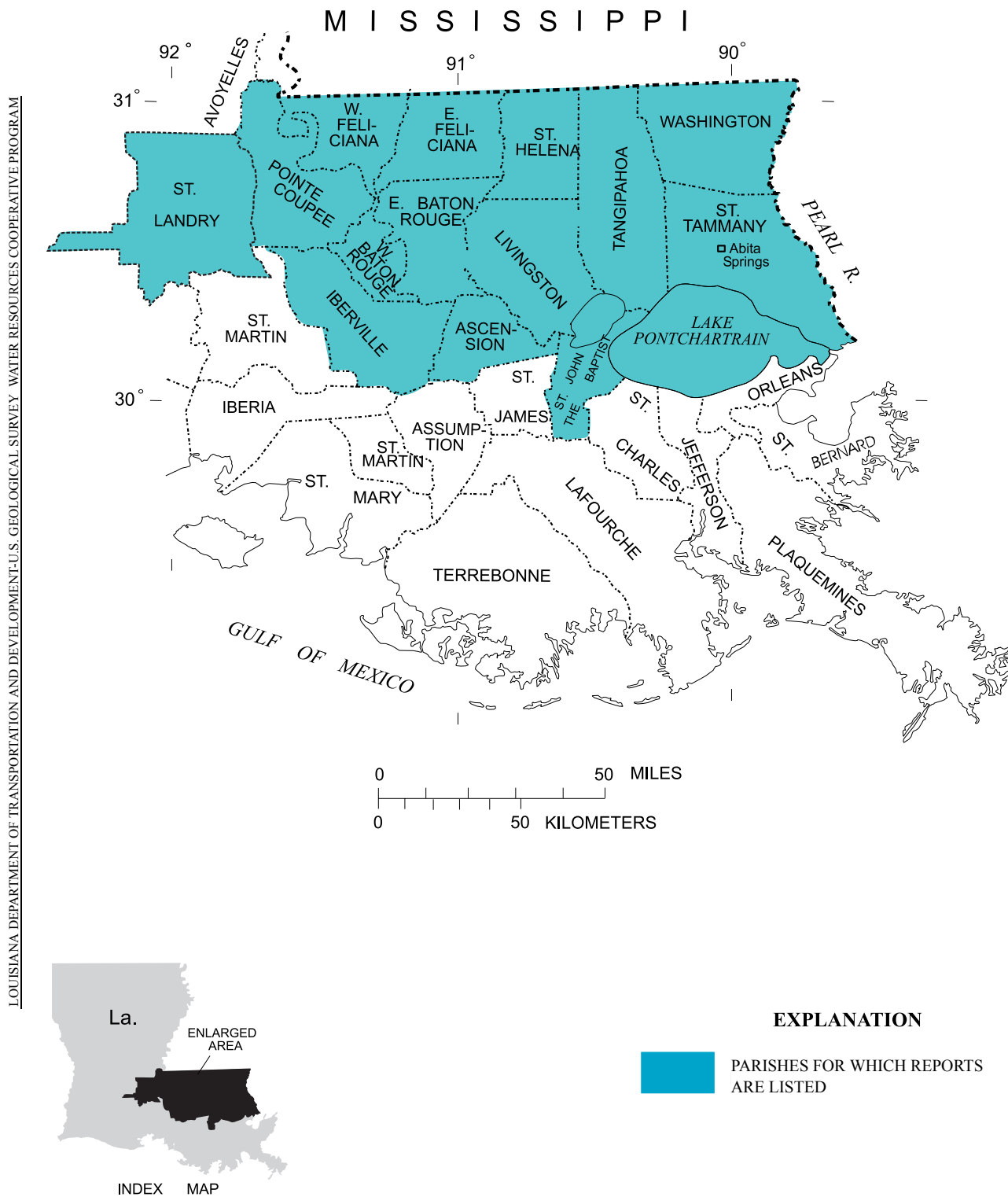


Figure 13. Parishes for which reports are listed on the Jasper equivalent aquifer system in Louisiana.

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- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1999, Hydrology of the coastal lowlands aquifer system in parts of Alabama, Florida, Louisiana, and Mississippi: U.S. Geological Survey **Professional Paper 1416-H**, 51 p.
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- U.S. Geological Survey, 1976, Water resources data for Louisiana, water year 1976, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-76-1**, 463 p.
- U.S. Geological Survey, 1976, Water resources data for Louisiana, water year 1976, volume 2. Southern Louisiana: U.S. Geological Survey **Water-Data Report LA-76-2**, 826 p.
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- U.S. Geological Survey, 1977, Water resources data for Louisiana, water year 1977, volume 2. Southern Louisiana: U.S. Geological Survey **Water-Data Report LA-77-2**, 393 p.
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Multiparish — continued

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- U.S. Geological Survey, 1979, Water resources data for Louisiana, water year 1979, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-79-1**, 426 p.
- U.S. Geological Survey, 1979, Water resources data for Louisiana, water year 1979, volume 2. Southern Louisiana: U.S. Geological Survey **Water-Data Report LA-79-2**, 461 p.
- U.S. Geological Survey, 1979, Water resources data for Louisiana, water year 1979, volume 3. Coastal Louisiana: U.S. Geological Survey **Water-Data Report LA-79-3**, 284 p.
- U.S. Geological Survey, 1980, Water resources data for Louisiana, water year 1980, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-80-1**, 526 p.
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- U.S. Geological Survey, 1981, Water resources data—Louisiana, water year 1981, volume 3. Coastal Louisiana: U.S. Geological Survey **Water-Data Report LA-81-3**, 218 p.
- Veatch, A.C., 1905, Louisiana and southern Arkansas, *in* Underground waters of eastern United States: U.S. Geological Survey **Water-Supply Paper 114**, p. 179-187.
- Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana and southern Arkansas: U.S. Geological Survey **Professional Paper 46**, 422 p.
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- Walters, D.J., 1995, Louisiana ground-water map no. 11: Potentiometric surface, spring 1993, and water-level changes, 1987-93, of the Gonzales-New Orleans aquifer in southeastern Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 95-4169**, 2 sheets.

Multiparish — continued

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CATAHOULA AQUIFER

Catahoula

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U.S. Geological Survey, [Turcan, A.N., Jr.], 1949, Water, *in* Catahoula Parish Resources and Facilities: Louisiana Department of Public Works and Catahoula Parish Planning Board, p. 30-35.

Concordia

No entry.

East Feliciana

Calandro, A.J., Whiteman, C.D., and Gaydos, M.W., [1966], Water, *in* East Feliciana Parish Resources and Facilities: Louisiana Department of Public Works and East Feliciana Parish Development Board, p. 32-37.

Morgan, C.O., 1963, Ground-water resources of East Feliciana and West Feliciana Parishes, Louisiana: Louisiana Department of Public Works, 58 p.

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Grant

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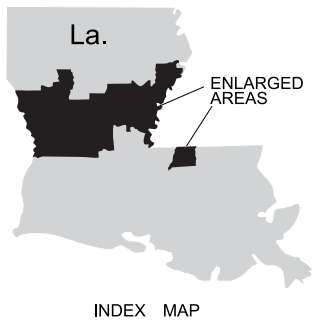
Maher, J.C., 1940, Memorandum on the ground-water supplies in the Colfax area, Louisiana: U.S. Geological Survey **Open-File Report**, 1 p.

Maher, J.C., 1941, Ground-water resources of Grant and La Salle Parishes, Louisiana: Louisiana Department of Minerals, **Geological Bulletin no. 20**, 95 p.

Maher, J.C., 1942, Ground-water conditions at Camp Livingston, Camp Beauregard, and Esler Field, Louisiana: U.S. Geological Survey **Open-File Report**, 51 p.

U.S. Geological Survey, [Jones, P.H.], 1947, Water, *in* Grant Parish Resources and Facilities: Louisiana Department of Public Works and Grant Parish Planning Board.

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EXPLANATION

PARISHES FOR WHICH REPORTS ARE LISTED

Figure 14. Parishes for which reports are listed on the Catahoula aquifer in Louisiana.

La Salle

- Maher, J.C., 1940, Ground water in Grant and La Salle Parishes, Louisiana, *in* Louisiana Conservation Review, spring 1940: Louisiana Department of Conservation, p. 36-41.
- Maher, J.C., 1941, Ground-water resources of Grant and La Salle Parishes, Louisiana: Louisiana Department of Minerals, **Geological Bulletin no. 20**, 95 p.
- Sloss, Raymond, and May, H.G., [1961], Water, *in* La Salle Parish Resources and Facilities: Louisiana Department of Public Works and La Salle Parish Development Board, p. 47-57.

Natchitoches

- Maher, J.C., and Jones, P.H., 1945, Ground water and geologic structure of Natchitoches area, Louisiana: Bulletin of American Association of Petroleum Geologists, v. 29, no. 1, p. 23-44.
- Maher, J.C., and Jones, P.H., 1949, Ground-water exploration in the Natchitoches area, Louisiana: U.S. Geological Survey **Water-Supply Paper 968-D**, p. D159-D211.
- Newcome, Roy, Jr., Page, L.V., and Sloss, Raymond, 1963, Water resources of Natchitoches Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 4**, 189 p.
- U.S. Geological Survey, [Newcome, Roy, Jr.], [1957], Water, *in* Natchitoches Parish Resources and Facilities: Louisiana Department of Public Works and Natchitoches Parish Development Board, p. 46-58.

Rapides

- Klug, M.L., 1955, Geology and ground-water resources of the Alexandria area, Rapides Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 3**, 23 p.
- Maher, J.C., 1939, Fluoride in the ground water of Avoyelles and Rapides Parishes, Louisiana: Louisiana Department of Conservation **Geological Pamphlet no. 1**, 23 p.
- Maher, J.C., 1940, Ground-water resources of Rapides Parish, Louisiana: Louisiana Department of Conservation **Geological Bulletin no. 17**, 100 p.
- Maher, J.C., 1940, Preliminary report on ground-water conditions at Alexandria, Louisiana: Louisiana Department of Conservation **Geological Pamphlet no. 2**, 54 p.
- Maher, J.C., 1942, Ground-water conditions at Camp Claiborne, Louisiana: U.S. Geological Survey **Open-File Report**, 54 p.
- Maher, J.C., 1942, Ground-water conditions at Camp Livingston, Camp Beauregard, and Esler Field, Louisiana: U.S. Geological Survey **Open-File Report**, 51 p.
- Maher, J.C., 1942, Memorandum on ground-water conditions in the Alexandria area, Louisiana: U.S. Geological Survey **Open-File Report**, 3 p.
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Rapides — continued

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- Rogers, J.E., 1981, Water resources of the Kisatchie well-field area near Alexandria, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 26**, 57 p.
- Smoot, C.W., and Fendick, R.B., Jr., 1998, Hydrogeology and water resources of the Alexandria area, Rapides Parish, Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 63**, 36 p., 1 pl.
- Whiteman, C.D., Jr., Calandro, A.J., and Broussard, W.L., 1970, Water resources of the Slagle-Simpson-Flatwoods area, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet 24**, 23 p.

Sabine

- Page, L.V., Newcome, Roy, Jr., and Graeff, G.D., Jr., 1963, Water resources of Sabine Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 3**, 146 p.
- U.S. Geological Survey, [Sloss, Raymond, and Garber, M.S.], [1959], Water, *in* Sabine Parish Resources and Facilities: Louisiana Department of Public Works and Sabine Parish Development Board, p. 34-48.

Tensas

- U.S. Geological Survey, [Turcan, A.N., Jr.], 1949, Water, *in* Tensas Parish Resources and Facilities: Louisiana Department of Public Works and Tensas Parish Planning Board, p. 25-29.

Vernon

- Klug, M.L., 1956, Memorandum on the ground-water resources of the Leesville area, Vernon Parish, Louisiana: U.S. Geological Survey **Open-File Report**, 25 p.
- Maher, J.C., 1945, Ground-water geology of Camp Polk and North Camp Polk, Louisiana: Bulletin of American Association of Petroleum Geologists, v. 29, no. 8, p. 1,169-1,188.
- Maher, J.C., Guyton, W.F., Drescher, W.J., and Jones, P.H., 1955, Ground-water conditions at Camp Polk and North Camp Polk, Louisiana: U.S. Geological Survey **Open-File Report**, 67 p.
- McWreath, H.C., III, and Smoot, C.W., 1989, Geohydrology and development of ground water at Fort Polk, Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 88-4088**, 53 p.

Vernon — continued

- Rogers, J.E., and Calandro, A.J., 1965, Water resources of Vernon Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 6**, 104 p.
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- Whiteman, C.D., Jr., Calandro, A.J., and Broussard, W.L., 1970, Water resources of the Slagle-Simpson-Flatwoods area, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 24**, 23 p.

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- Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1982, Water resources data—Louisiana, water year 1982, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-82-1**, 422 p.
- Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1983, Water resources data—Louisiana, water year 1983, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-83-1**, 392 p.
- Huff, G.F., and Bonck, J.P., 1993, Saltwater in shallow aquifers in east-central and northeastern Louisiana and southeastern Arkansas: U.S. Geological Survey **Open-File Report 93-494**, 54 p.
- Lurry, D.L., 1985, Public water supplies in Louisiana, volume 1: Northern Louisiana: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 13**, 119 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1986, Generalized potentiometric surface of the Catahoula aquifer in central Louisiana, 1980: U.S. Geological Survey **Water-Resources Investigations Report 86-4059**, 1 sheet.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1989, Geohydrology and regional ground-water flow of the coastal lowlands aquifer system in parts of Louisiana, Mississippi, Alabama, and Florida--A preliminary analysis: U.S. Geological Survey **Water-Resources Investigations Report 88-4100**, 88 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1990, Calibration and sensitivity analysis of a ground-water flow model of the coastal lowlands aquifer system in parts of Louisiana, Mississippi, Alabama, and Florida: U.S. Geological Survey **Water-Resources Investigations Report 89-4189**, 54 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1991, Hydrology of the coastal lowlands aquifer system in parts of Alabama, Florida, Louisiana, and Mississippi: U.S. Geological Survey **Open-File Report 91-72**, 115 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1999, Hydrology of the coastal lowlands aquifer system in parts of Alabama, Florida, Louisiana, and Mississippi: U.S. Geological Survey **Professional Paper 1416-H**, 51 p.

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- U.S. Geological Survey, 1977, Water resources data for Louisiana, water year 1977, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-77-1**, 405 p.
- U.S. Geological Survey, 1978, Water resources data for Louisiana, water year 1978, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-78-1**, 412 p.
- U.S. Geological Survey, 1979, Water resources data for Louisiana, water year 1979, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-79-1**, 426 p.
- U.S. Geological Survey, 1980, Water resources data for Louisiana, water year 1980, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-80-1**, 526 p.
- U.S. Geological Survey, 1981, Water resources data—Louisiana, water year 1981, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-81-1**, 424 p.
- Veatch, A.C., 1905, Louisiana and southern Arkansas, *in* Underground waters of eastern United States: U.S. Geological Survey **Water-Supply Paper 114**, p. 179-187.
- Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana and southern Arkansas: U.S. Geological Survey **Professional Paper 46**, 422 p.
- Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana, with notes on adjoining districts; *in* Geological Survey of Louisiana, report of 1905: Louisiana State Experiment Station, Louisiana Geological Survey **Bulletin IV**, p. 261-457.
- Whiteman, C.D., Jr., and Martin, Angel, Jr., 1984, Geohydrologic sections, northern Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 84-4211**, 1 sheet.

COCKFIELD AQUIFER

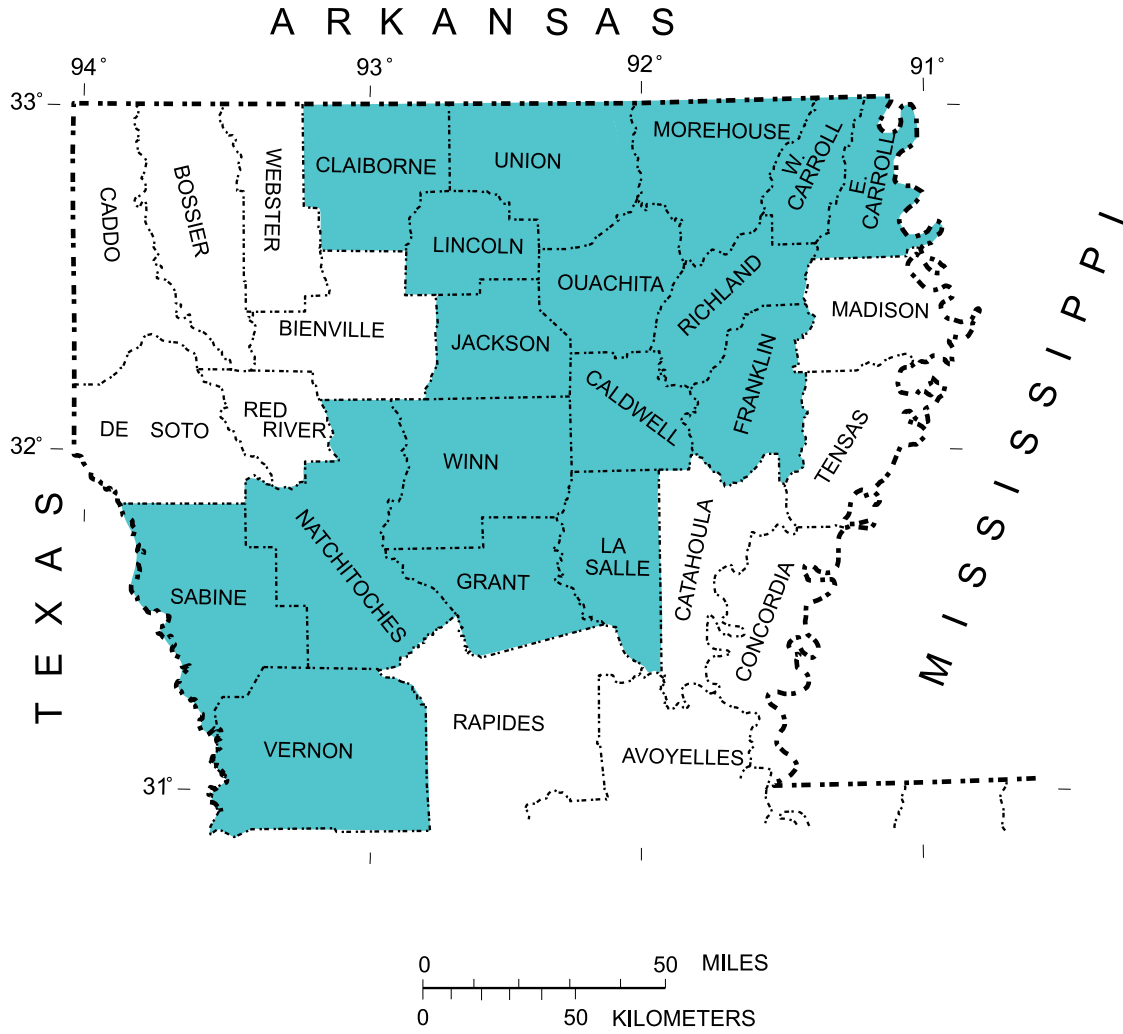
Caldwell

No entry.

Claiborne

- U.S. Geological Survey, [Turcan, A.N., Jr.], 1948, Water, *in* Claiborne Parish Resources and Facilities: Louisiana Department of Public Works and Claiborne Parish Planning Board, p. 32-37.

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EXPLANATION

PARISHES FOR WHICH REPORTS ARE LISTED

Figure 15. Parishes for which reports are listed on the Cockfield aquifer in Louisiana.

East Carroll

Poole, J.L., 1961, Ground-water resources of East Carroll and West Carroll Parishes, Louisiana: Louisiana Department of Public Works, 174 p.

Turcan, A.N., Jr., 1951, Water, *in* East Carroll Parish Resources and Facilities: Louisiana Department of Public Works and East Carroll Parish Development Board, p. 50-56.

Franklin

Sloss, Raymond, and May, H.G., [1959], Water, *in* Franklin Parish Resources and Facilities: Louisiana Department of Public Works and Franklin Parish Development Board, p. 34-45.

Whitfield, M.S., Jr., 1973, Availability of ground water in the Winnsboro area, Louisiana: Louisiana Department of Public Works **Water Resources Special Report no. 1**, 9 p.

Grant

Maher, J.C., 1940, Ground water in Grant and La Salle Parishes, Louisiana, *in* Louisiana Conservation Review, spring 1940: Louisiana Department of Conservation, p. 36-41.

Maher, J.C., 1940, Memorandum on the ground-water supplies in the Colfax area, Louisiana: U.S. Geological Survey **Open-File Report**, 1 p.

Maher, J.C., 1941, Ground-water resources of Grant and La Salle Parishes, Louisiana: Louisiana Department of Minerals, **Geological Bulletin no. 20**, 95 p.

Maher, J.C., 1942, Ground-water conditions at Camp Livingston, Camp Beauregard, and Esler Field, Louisiana: U.S. Geological Survey **Open-File Report**, 51 p.

U.S. Geological Survey, [Jones, P.H.], 1947, Water, *in* Grant Parish Resources and Facilities: Louisiana Department of Public Works and Grant Parish Planning Board.

Jackson

U.S. Geological Survey, [Jones, P.H.], 1947, Water, *in* Jackson Parish Resources and Facilities: Louisiana Department of Public Works and Jackson Parish Planning Board, p. 26-29.

La Salle

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Maher, J.C., 1941, Ground-water resources of Grant and La Salle Parishes, Louisiana: Louisiana Department of Minerals, **Geological Bulletin no. 20**, 95 p.

Sloss, Raymond, and May, H.G., [1961], Water, *in* La Salle Parish Resources and Facilities: Louisiana Department of Public Works and La Salle Parish Development Board, p. 47-57.

Lincoln

Maher, J.C., 1943, Water, *in* Lincoln Parish Resources and Facilities: Louisiana Department of Public Works and Lincoln Parish Planning Board, p. 22-26, 70-71.

Sanford, T.H., Jr., 1973, Water resources of the Ruston area, Louisiana: Louisiana Department of Public Works **Water Resources Technical Report no. 8**, 32 p.

U.S. Geological Survey, [Turcan, A.N., Jr.], [1953], Water, *in* Lincoln Parish Resources and Facilities: Louisiana Department of Public Works and Lincoln Parish Development Board, p. 41-48.

Morehouse

Sanford, T.H., Jr., 1973, Ground-water resources of Morehouse Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 19**, 90 p.

U.S. Geological Survey, [Jones, P.H.], [1950], Water, *in* Morehouse Parish Resources and Facilities: Louisiana Department of Public Works and Morehouse Parish Development Board, p. 37-40.

Natchitoches

Maher, J.C., and Jones, P.H., 1945, Ground water and geologic structure of Natchitoches area, Louisiana: *Bulletin of American Association of Petroleum Geologists*, v. 29, no. 1, p. 23-44.

Maher, J.C., and Jones, P.H., 1949, Ground-water exploration in the Natchitoches area, Louisiana: U.S. Geological Survey **Water-Supply Paper 968-D**, p. D159-D211.

Newcome, Roy, Jr., Page, L.V., and Sloss, Raymond, 1963, Water resources of Natchitoches Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 4**, 189 p.

U.S. Geological Survey, [Newcome, Roy, Jr.], [1957], Water, *in* Natchitoches Parish Resources and Facilities: Louisiana Department of Public Works and Natchitoches Parish Development Board, p. 46-58.

Ouachita

Jones, P.H., 1945, Water, *in* Ouachita Parish Resources and Facilities: Louisiana Department of Public Works and Ouachita Parish Planning Board, p. 22-26.

Jones, P.H., and Holmes, C.N., 1947, Ground-water conditions in the Monroe area, Louisiana: Louisiana Department of Conservation **Geological Bulletin no. 24**, 47 p.

Rogers, J.E., Calandro, A.J., and Gaydos, M.W., 1972, Water resources of Ouachita Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 14**, 118 p.

Snider, J.L., 1962, Emergency ground-water supplies in the Monroe area, Louisiana: Louisiana Department of Conservation and Louisiana Department of Public Works, 1 sheet.

Richland

Covay, K.J., 1985, Ground-water resources of the Rayville-Delhi area, northeastern Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 37**, 22 p.

U.S. Geological Survey, [Turcan, A.N., Jr.], [1952], Water, *in* Richland Parish Resources and Facilities: Louisiana Department of Public Works and Richland Parish Development Board, p. 35-39.

Sabine

Page, L.V., Newcome, Roy, Jr., and Graeff, G.D., Jr., 1963, Water resources of Sabine Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 3**, 146 p.

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Union

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U.S. Geological Survey, [Turcan, A.N., Jr.], [1953], Water, *in* Union Parish Resources and Facilities: Louisiana Department of Public Works and Union Parish Development Board, p. 45-51.

Vernon

Klug, M.L., 1956, Memorandum on the ground-water resources of the Leesville area, Vernon Parish, Louisiana: U.S. Geological Survey **Open-File Report**, 25 p.

Maher, J.C., 1945, Ground-water geology of Camp Polk and North Camp Polk, Louisiana: Bulletin of American Association of Petroleum Geologists, v. 29, no. 8, p. 1,169-1,188.

Maher, J.C., Guyton, W.F., Drescher, W.J., and Jones, P.H., 1955, Ground-water conditions at Camp Polk and North Camp Polk, Louisiana: U.S. Geological Survey **Open-File Report**, 67 p.

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U.S. Geological Survey, [Jones, P.H.], 1955, Water, *in* Vernon Parish Resources and Facilities: Louisiana Department of Public Works and Vernon Parish Planning Board.

West Carroll

Poole, J.L., 1961, Ground-water resources of East Carroll and West Carroll Parishes, Louisiana: Louisiana Department of Public Works, 174 p.

West Carroll — continued

Turcan, A.N., Jr., [1951], Water, *in* West Carroll Parish Resources and Facilities: Louisiana Department of Public Works and West Carroll Parish Development Board, p. 39-44.

Winn

Poole, J.L., [1955], Water, *in* Winn Parish Resources and Facilities: Louisiana Department of Public Works and Winn Parish Development Board, p. 28-34.

Multiparish

Brantly, J.A., and Seanor, R.C., 1996, Louisiana ground-water map no. 9: Potentiometric surface, 1993, and water-level changes, 1968-93, of the Cockfield aquifer in northern Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 95-4241**, 2 sheets.

Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1982, Water resources data—Louisiana, water year 1982, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-82-1**, 422 p.

Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1983, Water resources data—Louisiana, water year 1983, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-83-1**, 392 p.

Gaydos, M.W., Rogers, J.E., and Smith, R.P., 1973, Water resources of the Little River basin, Louisiana: U.S. Geological Survey **Water-Supply Paper 1989**, 74 p.

Hosman, R.L., Long, A.T., Lambert, T.W., and others, 1968, Tertiary aquifers in the Mississippi embayment, *with discussions of Quality of the water*, by H.G. Jeffery: U.S. Geological Survey **Professional Paper 448-D**, p. D1-D29.

Hosman, R.L., 1978, Geohydrology of the northern Louisiana salt-dome basin pertinent to the storage of radioactive wastes--A progress report: U.S. Geological Survey **Water-Resources Investigations Report 78-104**, 27 p.

Huff, G.F., and Bonck, J.P., 1993, Saltwater in shallow aquifers in east-central and northeastern Louisiana and southeastern Arkansas: U.S. Geological Survey **Open-File Report 93-494**, 54 p.

Lurry, D.L., 1985, Public water supplies in Louisiana, volume 1: Northern Louisiana: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 13**, 119 p.

Martin, Angel, Jr., and Whiteman, C.D., Jr., 1989, Geohydrology and regional ground-water flow of the coastal lowlands aquifer system in parts of Louisiana, Mississippi, Alabama, and Florida--A preliminary analysis: U.S. Geological Survey **Water-Resources Investigations Report 88-4100**, 88 p.

Martin, Angel, Jr., and Whiteman, C.D., Jr., 1990, Calibration and sensitivity analysis of a ground-water flow model of the coastal lowlands aquifer system in parts of Louisiana, Mississippi, Alabama, and Florida: U.S. Geological Survey **Water-Resources Investigations Report 89-4189**, 54 p.

Multiparish — continued

- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1991, Hydrology of the coastal lowlands aquifer system in parts of Alabama, Florida, Louisiana, and Mississippi: U.S. Geological Survey **Open-File Report 91-72**, 115 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1999, Hydrology of the coastal lowlands aquifer system in parts of Alabama, Florida, Louisiana, and Mississippi: U.S. Geological Survey **Professional Paper 1416-H**, 51 p.
- Payne, J.N., 1970, Geohydrologic significance of lithofacies of the Cockfield Formation of Louisiana and Mississippi and of the Yegua Formation of Texas: U.S. Geological Survey **Professional Paper 569-B**, p. B1-B14.
- Ryals, G.N., 1980, Base of fresh ground water, northern Louisiana salt-dome basin and vicinity, northern Louisiana and southern Arkansas: U.S. Geological Survey **Open-File Report 80-2038**, 5 p.
- Ryals, G.N., 1982, Regional geohydrology of the northern Louisiana salt-dome basin, part I, Conceptual model and data needs: U.S. Geological Survey **Open-File Report 82-343**, 23 p.
- Ryals, G.N., 1983, Regional geohydrology of the northern Louisiana salt-dome basin, part III, potentiometric levels of the Wilcox-Carrizo and Sparta aquifers: U.S. Geological Survey **Water-Resources Investigations Report 83-4131**, 10 p.
- Ryals, G.N., 1983, Regional geohydrology of the northern Louisiana salt-dome basin, part IV, hydraulic characteristics of the Wilcox-Carrizo aquifer: U.S. Geological Survey **Water-Resources Investigations Report 83-4132**, 9 p.
- Ryals, G.N., 1984, Regional geohydrology of the northern Louisiana salt-dome basin, part II, geohydrologic maps of the Tertiary aquifers and related confining layers: U.S. Geological Survey **Water-Resources Investigations Report 83-4135**, 6 p.
- Ryals, G.N., and Hosman, R.L., 1980, Selected hydrologic data from the vicinity of Rayburns and Vacherie salt domes, northern Louisiana salt-dome basin: U.S. Geological Survey **Open-File Report 80-217**, 17 p.
- U.S. Geological Survey, 1976, Water resources data for Louisiana, water year 1976, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-76-1**, 463 p.
- U.S. Geological Survey, 1977, Water resources data for Louisiana, water year 1977, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-77-1**, 405 p.
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- U.S. Geological Survey, 1979, Water resources data for Louisiana, water year 1979, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-79-1**, 426 p.
- U.S. Geological Survey, 1980, Water resources data for Louisiana, water year 1980, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-80-1**, 526 p.
- U.S. Geological Survey, 1981, Water resources data—Louisiana, water year 1981, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-81-1**, 424 p.

Multiparish — continued

Veatch, A.C., 1905, Louisiana and southern Arkansas, *in* Underground waters of eastern United States: U.S. Geological Survey **Water-Supply Paper 114**, p. 179-187.

Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana and southern Arkansas: U.S. Geological Survey **Professional Paper 46**, 422 p.

Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana, with notes on adjoining districts; *in* Geological Survey of Louisiana, report of 1905: Louisiana State Experiment Station, Louisiana Geological Survey **Bulletin IV**, p. 261-457.

Whiteman, C.D., Jr., and Martin, Angel, Jr., 1984, Geohydrologic sections, northern Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 84-4211**, 1 sheet.

SPARTA AQUIFER

Bienville

U.S. Geological Survey, [Turcan, A.N., Jr.], [1952], Water, *in* Bienville Parish Resources and Facilities: Louisiana Department of Public Works and Bienville Parish Development Board, p. 50-56.

Bossier

Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.

Snider, J.L., 1983, Ground-water resources of the Fillmore-Haughton-Red Chute area, Bossier and Webster Parishes, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 32**, 21 p.

Caddo

Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.

Rapp, T.R., 1996, Ground-water resources of Caddo Parish, Louisiana, 1992: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 58**, 89 p.

Caldwell

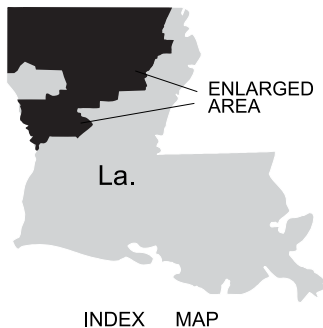
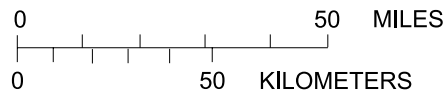
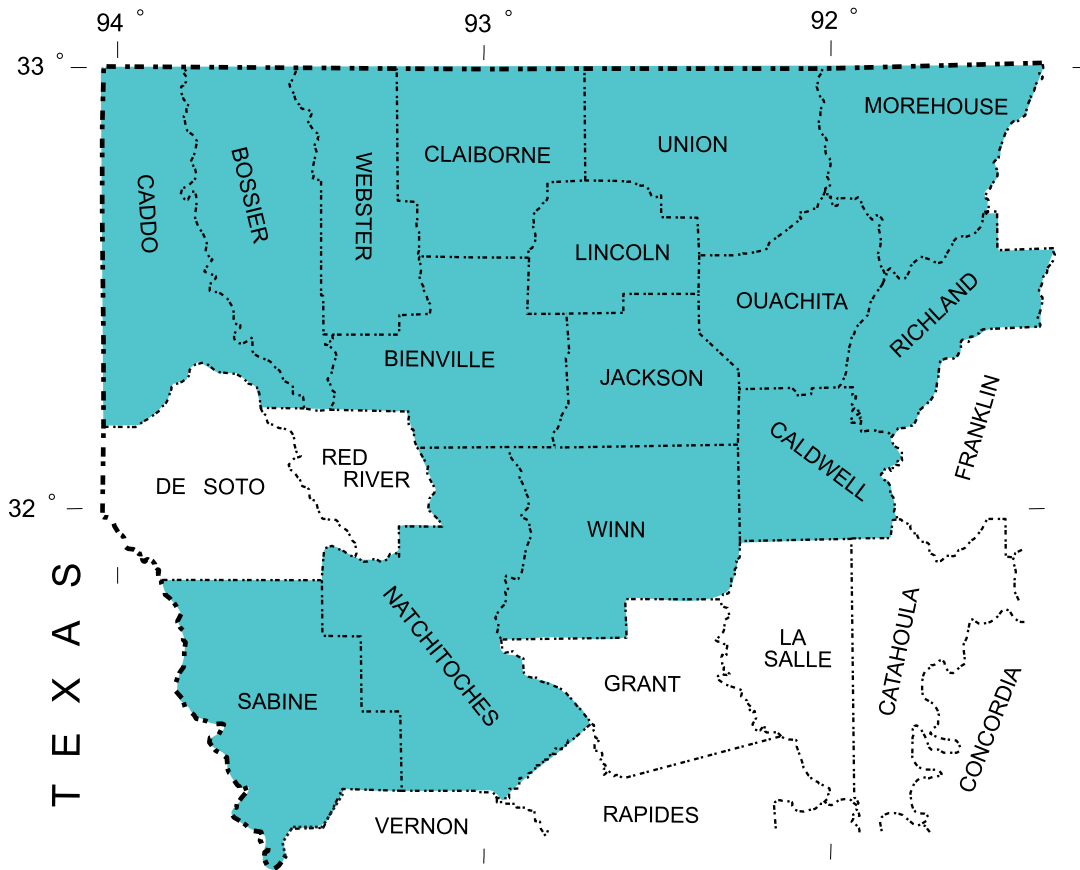
No entry.

Claiborne

U.S. Geological Survey, [Turcan, A.N., Jr.], 1948, Water, *in* Claiborne Parish Resources and Facilities: Louisiana Department of Public Works and Claiborne Parish Planning Board, p. 32-37.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT—U.S. GEOLOGICAL SURVEY WATER RESOURCES COOPERATIVE PROGRAM

A R K A N S A S



EXPLANATION

PARISHES FOR WHICH REPORTS ARE LISTED

Figure 16. Parishes for which reports are listed on the Sparta aquifer in Louisiana.

Jackson

U.S. Geological Survey, [Jones, P.H.], 1947, Water, *in* Jackson Parish Resources and Facilities: Louisiana Department of Public Works and Jackson Parish Planning Board, p. 26-29.

Lincoln

Sanford, T.H., Jr., 1973, Water resources of the Ruston area, Louisiana: Louisiana Department of Public Works **Water Resources Technical Report no. 8**, 32 p.

U.S. Geological Survey, [Maher, J.C.], 1943, Water, *in* Lincoln Parish Resources and Facilities: Louisiana Department of Public Works and Lincoln Parish Planning Board, p. 22-26, 70-71.

U.S. Geological Survey, [Turcan, A.N., Jr.], [1953], Water, *in* Lincoln Parish Resources and Facilities: Louisiana Department of Public Works and Lincoln Parish Development Board, p. 41-48.

Morehouse

Sanford, T.H., Jr., 1973, Ground-water resources of Morehouse Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 19**, 90 p.

U.S. Geological Survey, [Jones, P.H.], [1950], Water, *in* Morehouse Parish Resources and Facilities: Louisiana Department of Public Works and Morehouse Parish Development Board, p. 37-40.

Natchitoches

Maher, J.C., and Jones, P.H., 1945, Ground water and geologic structure of Natchitoches area, Louisiana: Bulletin of American Association of Petroleum Geologists, v. 29, no. 1, p. 23-44.

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Newcome, Roy, Jr., Page, L.V., and Sloss, Raymond, 1963, Water resources of Natchitoches Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 4**, 189 p.

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Ouachita

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Jones, P.H., and Holmes, C.N., 1947, Ground-water conditions in the Monroe area, Louisiana: Louisiana Department of Conservation **Geological Bulletin no. 24**, 47 p.

Rogers, J.E., Calandro, A.J., and Gaydos, M.W., 1972, Water resources of Ouachita Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 14**, 118 p.

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Trudeau, D.A., and Buono, Anthony, 1985, Projected effects of proposed increased pumpage on water levels and salinity in the Sparta aquifer near West Monroe, Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 39**, 70 p.

Richland

Covay, K.J., 1985, Ground-water resources of the Rayville-Delhi area, northeastern Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 37**, 22 p.

U.S. Geological Survey, [Turcan, A.N., Jr.], [1952], Water, *in* Richland Parish Resources and Facilities: Louisiana Department of Public Works and Richland Parish Development Board, p. 35-39.

Sabine

Page, L.V., Newcome, Roy, Jr., and Graeff, G.D., Jr., 1963, Water resources of Sabine Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 3**, 146 p.

U.S. Geological Survey, [Sloss, Raymond, and Garber, M.S.], [1959], Water, *in* Sabine Parish Resources and Facilities: Louisiana Department of Public Works and Sabine Parish Development Board, p. 34-48.

Union

Snider, J.L., Calandro, A.J., and Shampine, W.J., 1972, Water resources of Union Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 17**, 68 p.

U.S. Geological Survey, [Turcan, A.N., Jr.], [1953], Water, *in* Union Parish Resources and Facilities: Louisiana Department of Public Works and Union Parish Development Board, p. 45-51.

Webster

Snider, J.L., 1983, Ground-water resources of the Fillmore-Haughton-Red Chute area, Bossier and Webster Parishes, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 32**, 21 p.

U.S. Geological Survey, [Maher, J.C.], 1944, Water, *in* Webster Parish Resources and Facilities: Louisiana Department of Public Works and Webster Parish Planning Board, p. 24-26, 95-101.

Winn

Poole, J.L., [1955], Water, *in* Winn Parish Resources and Facilities: Louisiana Department of Public Works and Winn Parish Development Board, p. 28-34.

Multiparish

- Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1982, Water resources data—Louisiana, water year 1982, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-82-1**, 422 p.
- Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1983, Water resources data—Louisiana, water year 1983, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-83-1**, 392 p.
- Gaydos, M.W., Rogers, J.E., and Smith, R.P., 1973, Water resources of the Little River basin, Louisiana: U.S. Geological Survey **Water-Supply Paper 1989**, 74 p.
- Hosman, R.L., Long, A.T., Lambert, T.W., and others, 1968, Tertiary aquifers in the Mississippi embayment, *with discussions of Quality of the water*, by H.G. Jeffery: U.S. Geological Survey **Professional Paper 448-D**, p. D1-D29.
- Hosman, R.L., 1978, Geohydrology of the northern Louisiana salt-dome basin pertinent to the storage of radioactive wastes--A progress report: U.S. Geological Survey **Water-Resources Investigations Report 78-104**, 27 p.
- Lurry, D.L., 1985, Public water supplies in Louisiana, volume 1: Northern Louisiana: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 13**, 119 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1989, Geohydrology and regional ground-water flow of the coastal lowlands aquifer system in parts of Louisiana, Mississippi, Alabama, and Florida--A preliminary analysis: U.S. Geological Survey **Water-Resources Investigations Report 88-4100**, 88 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1990, Calibration and sensitivity analysis of a ground-water flow model of the coastal lowlands aquifer system in parts of Louisiana, Mississippi, Alabama, and Florida: U.S. Geological Survey **Water-Resources Investigations Report 89-4189**, 54 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1991, Hydrology of the coastal lowlands aquifer system in parts of Alabama, Florida, Louisiana, and Mississippi: U.S. Geological Survey **Open-File Report 91-72**, 115 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1999, Hydrology of the coastal lowlands aquifer system in parts of Alabama, Florida, Louisiana, and Mississippi: U.S. Geological Survey **Professional Paper 1416-H**, 51 p.
- McWreath, H.C., III, Nelson, J.D., and Fitzpatrick, D.J., 1991, Simulated response to pumping stresses in the Sparta aquifer, northern Louisiana and southern Arkansas: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 51**, 51 p.
- Payne, J.N., 1968, Hydrologic significance of the lithofacies of the Sparta Sand in Arkansas, Louisiana, Mississippi, and Texas: U.S. Geological Survey **Professional Paper 569-A**, p. A1-A17.
- Ryals, G.N., 1980, Base of fresh ground water, northern Louisiana salt-dome basin and vicinity, northern Louisiana and southern Arkansas: U.S. Geological Survey **Open-File Report 80-2038**, 5 p.

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- Ryals, G.N., 1980, Potentiometric surface maps of the Sparta Sand; northern Louisiana and southern Arkansas, 1900, 1965, 1975, and 1980: U.S. Geological Survey **Open-File Report 80-1180**, 1 sheet.
- Ryals, G.N., 1982, Ground-water resources of the Arcadia-Minden area, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 28**, 35 p.
- Ryals, G.N., 1982, Regional geohydrology of the northern Louisiana salt-dome basin, part I, Conceptual model and data needs: U.S. Geological Survey **Open-File Report 82-343**, 23 p.
- Ryals, G.N., 1983, Regional geohydrology of the northern Louisiana salt-dome basin, part III, potentiometric levels of the Wilcox-Carrizo and Sparta aquifers: U.S. Geological Survey **Water-Resources Investigations Report 83-4131**, 10 p.
- Ryals, G.N., 1983, Regional geohydrology of the northern Louisiana salt-dome basin, part IV, hydraulic characteristics of the Wilcox-Carrizo aquifer: U.S. Geological Survey **Water-Resources Investigations Report 83-4132**, 9 p.
- Ryals, G.N., 1984, Regional geohydrology of the northern Louisiana salt-dome basin, part II, geohydrologic maps of the Tertiary aquifers and related confining layers: U.S. Geological Survey **Water-Resources Investigations Report 83-4135**, 6 p.
- Ryals, G.N., and Hosman, R.L., 1980, Selected hydrologic data from the vicinity of Rayburns and Vacherie salt domes, northern Louisiana salt-dome basin: U.S. Geological Survey **Open-File Report 80-217**, 17 p.
- Smoot, C.W., and Seanor, R.C., 1991, Louisiana ground-water map no. 3: Potentiometric surface, 1989, and water-level changes, 1980-89, of the Sparta aquifer in north-central Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 90-4183**, 2 sheets.
- U.S. Geological Survey, 1976, Water resources data for Louisiana, water year 1976, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-76-1**, 463 p.
- U.S. Geological Survey, 1977, Water resources data for Louisiana, water year 1977, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-77-1**, 405 p.
- U.S. Geological Survey, 1978, Water resources data for Louisiana, water year 1978, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-78-1**, 412 p.
- U.S. Geological Survey, 1979, Water resources data for Louisiana, water year 1979, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-79-1**, 426 p.
- U.S. Geological Survey, 1980, Water resources data for Louisiana, water year 1980, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-80-1**, 526 p.
- U.S. Geological Survey, 1981, Water resources data—Louisiana, water year 1981, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-81-1**, 424 p.
- Veatch, A.C., 1905, Louisiana and southern Arkansas, *in* Underground waters of eastern United States: U.S. Geological Survey **Water-Supply Paper 114**, p. 179-187.

Multiparish — continued

- Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana and southern Arkansas: U.S. Geological Survey **Professional Paper 46**, 422 p.
- Veatch, A.C., 1906, Geology and underground water resources of northern Louisiana, with notes on adjoining districts; *in* Geological Survey of Louisiana, report of 1905: Louisiana State Experiment Station, Louisiana Geological Survey **Bulletin IV**, p. 261-457.
- Whiteman, C.D., Jr., and Martin, Angel, Jr., 1984, Geohydrologic sections, northern Louisiana: U.S. Geological Survey **Water-Resources Investigations Report 84-4211**, 1 sheet.

CARRIZO-WILCOX AQUIFER

Bienville

- Ryals, G.N., 1980, Potentiometric surface of the Wilcox-Carrizo aquifer; Bienville, Red River, northern Natchitoches, and southern Webster Parishes, Louisiana: U.S. Geological Survey **Open-File Report 80-1179**, 1 sheet.
- U.S. Geological Survey, [Turcan, A.N., Jr.], [1952], Water, *in* Bienville Parish Resources and Facilities: Louisiana Department of Public Works and Bienville Parish Development Board, p. 50-56.

Bossier

- Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.
- Snider, J.L., 1983, Ground-water resources of the Fillmore-Haughton-Red Chute area, Bossier and Webster Parishes, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 32**, 21 p.

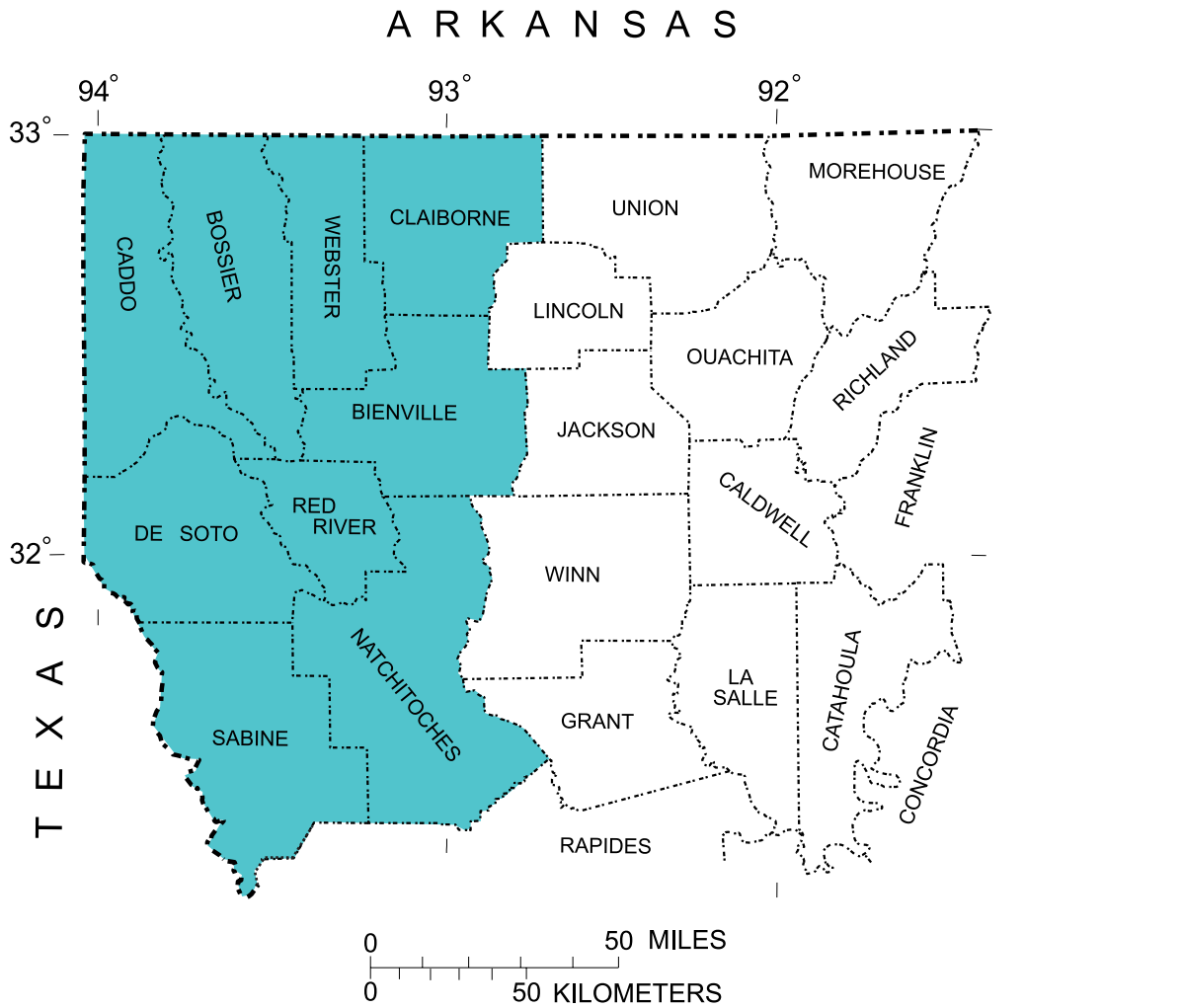
Caddo

- Page, L.V., and May, H.G., 1964, Water resources of Bossier and Caddo Parishes, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 5**, 105 p.
- Rapp, T.R., 1996, Ground-water resources of Caddo Parish, Louisiana, 1992: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 58**, 89 p.

Claiborne

- U.S. Geological Survey, [Turcan, A.N., Jr.], 1948, Water, *in* Claiborne Parish Resources and Facilities: Louisiana Department of Public Works and Claiborne Parish Planning Board, p. 32-37.

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EXPLANATION


 PARISHES FOR WHICH REPORTS ARE LISTED

Figure 17. Parishes for which reports are listed on the Carrizo-Wilcox aquifer in Louisiana.

De Soto

- Page, L.V., and Pre , H.L., Jr., 1964, Water resources of De Soto Parish, Louisiana: U.S. Geological Survey **Water-Supply Paper 1774**, 152 p.
- Page, L.V., and Pre , H.L., Jr., [no date], Water, *in* De Soto Parish, Resources and Facilities: Louisiana Department of Public Works and De Soto Parish Planning Board, p. 28-29.
- Snider, J.L., 1982, Premining hydrology of the lignite area in southeastern De Soto Parish, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 29**, 40 p.
- Snider, J.L., and Covay, K.J., 1987, Premining hydrology of the Logansport lignite area, De Soto Parish, Louisiana: Louisiana Department of Transportation and Development **Water Resources Technical Report no. 41**, 65 p.
- U.S. Geological Survey, [Turcan, A.N., Jr.], [1949], Water, *in* De Soto Parish, Resources and Facilities: Louisiana Department of Public Works and De Soto Parish Planning Board.

Natchitoches

- Calandro, A.J., Broussard, W.L., and Hosman, R.L., 1970, Water resources of the Belmont-Marthaville-Robeline area, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 25**, 21 p.
- Maher, J.C., and Jones, P.H., 1945, Ground water and geologic structure of Natchitoches area, Louisiana: Bulletin of American Association of Petroleum Geologists, v. 29, no. 1, p. 23-44.
- Maher, J.C., and Jones, P.H., 1949, Ground-water exploration in the Natchitoches area, Louisiana: U.S. Geological Survey **Water-Supply Paper 968-D**, p. D159-D211.
- Newcome, Roy, Jr., Page, L.V., and Sloss, Raymond, 1963, Water resources of Natchitoches Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 4**, 189 p.
- Ryals, G.N., 1980, Potentiometric surface of the Wilcox-Carrizo aquifer; Bienville, Red River, northern Natchitoches, and southern Webster Parishes, Louisiana: U.S. Geological Survey **Open-File Report 80-1179**, 1 sheet.
- U.S. Geological Survey, [Newcome, Roy, Jr.], [1957], Water, *in* Natchitoches Parish Resources and Facilities: Louisiana Department of Public Works and Natchitoches Parish Development Board, p. 46-58.

Red River

- Newcome, Roy, Jr., and Page, L.V., 1962, Water resources of Red River Parish, Louisiana: U.S. Geological Survey **Water-Supply Paper 1614**, 133 p.
- Ryals, G.N., 1980, Potentiometric surface of the Wilcox-Carrizo aquifer; Bienville, Red River, northern Natchitoches, and southern Webster Parishes, Louisiana: U.S. Geological Survey **Open-File Report 80-1179**, 1 sheet.
- U.S. Geological Survey, [Turcan, A.N., Jr.], 1948, Water, *in* Red River Parish Resources and Facilities: Louisiana Department of Public Works and Red River Parish Planning Board, p. 27-31.

Sabine

- Calandro, A.J., Broussard, W.L., and Hosman, R.L., 1970, Water resources of the Belmont-Marthaville-Robeline area, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Pamphlet no. 25**, 21 p.
- Page, L.V., Newcome, Roy, Jr., and Graeff, G.D., Jr., 1963, Water resources of Sabine Parish, Louisiana: Department of Conservation, Louisiana Geological Survey, and Louisiana Department of Public Works **Water Resources Bulletin no. 3**, 146 p.
- U.S. Geological Survey, [Sloss, Raymond, and Garber, M.S.], [1959], Water, *in* Sabine Parish Resources and Facilities: Louisiana Department of Public Works and Sabine Parish Development Board, p. 34-48.

Webster

- Ryals, G.N., 1980, Potentiometric surface of the Wilcox-Carrizo aquifer; Bienville, Red River, northern Natchitoches, and southern Webster Parishes, Louisiana: U.S. Geological Survey **Open-File Report 80-1179**, 1 sheet.
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- U.S. Geological Survey, [Maher, J.C.], 1944, Water, *in* Webster Parish Resources and Facilities: Louisiana Department of Public Works and Webster Parish Planning Board, p. 24-26, 95-101.

Multiparish

- Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1982, Water resources data—Louisiana, water year 1982, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-82-1**, 422 p.
- Carlson, D.D., Stallworth, G.R., Dantin, L.J., and Stuart, C.G., 1983, Water resources data—Louisiana, water year 1983, volume 1. Central and northern Louisiana: U.S. Geological Survey **Water-Data Report LA-83-1**, 392 p.
- Gaydos, M.W., Rogers, J.E., and Smith, R.P., 1973, Water resources of the Little River basin, Louisiana: U.S. Geological Survey **Water-Supply Paper 1989**, 74 p.
- Hosman, R.L., 1978, Geohydrology of the northern Louisiana salt-dome basin pertinent to the storage of radioactive wastes--A progress report: U.S. Geological Survey **Water-Resources Investigations Report 78-104**, 27 p.
- Hosman, R.L., Long, A.T., Lambert, T.W., and others, 1968, Tertiary aquifers in the Mississippi embayment, *with discussions of* Quality of the water, by H.G. Jeffery: U.S. Geological Survey **Professional Paper 448-D**, p. D1-D29.
- Huff, G.F., and Bonck, J.P., 1993, Saltwater in shallow aquifers in east-central and northeastern Louisiana and southeastern Arkansas: U.S. Geological Survey **Open-File Report 93-494**, 54 p.

Multiparish — continued

- Lurry, D.L., 1985, Public water supplies in Louisiana, volume 1: Northern Louisiana: Louisiana Department of Transportation and Development **Water Resources Basic Records Report no. 13**, 119 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1989, Geohydrology and regional ground-water flow of the coastal lowlands aquifer system in parts of Louisiana, Mississippi, Alabama, and Florida--A preliminary analysis: U.S. Geological Survey **Water-Resources Investigations Report 88-4100**, 88 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1990, Calibration and sensitivity analysis of a ground-water flow model of the coastal lowlands aquifer system in parts of Louisiana, Mississippi, Alabama, and Florida: U.S. Geological Survey **Water-Resources Investigations Report 89-4189**, 54 p.
- Martin, Angel, Jr., and Whiteman, C.D., Jr., 1991, Hydrology of the coastal lowlands aquifer system in parts of Alabama, Florida, Louisiana, and Mississippi: U.S. Geological Survey **Open-File Report 91-72**, 115 p.
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- Payne, J.N., 1975, Geohydrologic significance of lithofacies of the Carrizo Sand of Arkansas, Louisiana, and Texas and the Meridian Sand of Mississippi: U.S. Geological Survey **Professional Paper 569-D**, p. D1-D11.
- Ryals, G.N., 1980, Base of fresh ground water, northern Louisiana salt-dome basin and vicinity, northern Louisiana and southern Arkansas: U.S. Geological Survey **Open-File Report 80-2038**, 5 p.
- Ryals, G.N., 1982, Ground-water resources of the Arcadia-Minden area, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works **Water Resources Technical Report no. 28**, 35 p.
- Ryals, G.N., 1982, Regional geohydrology of the northern Louisiana salt-dome basin, part I, Conceptual model and data needs: U.S. Geological Survey **Open-File Report 82-343**, 23 p.
- Ryals, G.N., 1983, Regional geohydrology of the northern Louisiana salt-dome basin, part III, potentiometric levels of the Wilcox-Carrizo and Sparta aquifers: U.S. Geological Survey **Water-Resources Investigations Report 83-4131**, 10 p.
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Table 1. Summary of ground-water and related publications by aquifer and aquifer system

[Figure indicates number of publications. Type report: D, data (does not define cause-and-effect relations); I, interpretive (discusses cause-and effect relations)]

Parish	Red River alluvial aquifer		Mississippi River alluvial aquifer		Upland terrace aquifer		Chicot aquifer system		Chicot equivalent aquifer system		Evangeline aquifer		Evangeline equivalent aquifer		Jasper aquifer system		Jasper equivalent aquifer system		Catahoula aquifer		Cockfield aquifer		Sparta aquifer		Carrizo-Wilcox aquifer		
	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	
Acadia							2																				
Allen							1					1															
Ascension		2						4					3														
Assumption		1						1																			
Avoyelles		2										3															
Beauregard							2					2															
Bienville							1																				
Bossier		2					2																				
Caddo		2					2																				
Calcasieu												3															
Caldwell							7																				
Cameron							2																				
Catahoula		3					2																				
Clatborne																											
Concordia																											
DeSoto		5					5																				
East Baton Rouge			2	8				2	13			2	15														
East Carroll				2																							
East Feliciana					1	2						1	2														
Evangeline							3																				
Franklin				2																							
Grant		5																									
Iberia				1				1																			
Iberville				3									3														
Jackson																											
Jefferson																											
Jefferson Davis								4																			
Lafayette				2				3																			
Lafourche																											
LaSalle																											
Lincoln																											
Livingston																											

Table 1. Summary of ground-water and related publications by aquifer and aquifer system—Continued

Parish	Red River alluvial aquifer		Mississippi River alluvial aquifer		Upland terrace aquifer		Chicot aquifer system		Chicot equivalent aquifer system		Evangeline aquifer		Evangeline equivalent aquifer		Jasper aquifer system		Jasper equivalent aquifer system		Catahoula aquifer		Cockfield aquifer		Sparta aquifer		Carrizo-Wilcox aquifer			
	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I	D	I		
Madison			1																									
Morehouse			2		2																	2			2			
Natchitoches		4			4																	4			4		6	
Orleans									3																			
Ouachita			4		4																	4			5			
Plaquemines									1																			
Pointe Coupee			1	4			1	4			1	4																
Rapides		15	3		13		13				12											13					3	
Red River		2			2																							
Richland																												
Sabine					2																							
St. Bernard									1													2			2		3	
St. Charles									3																			
St. Helena					1				1																			
St. James				2					2																			
St. John the Baptist									2																			
St. Landry			1				2				2																	
St. Martin			1				1																					
St. Mary			1				1																					
St. Tammany									3																			
Tangipahoa									4																			
Tensas				2																								
Terrebonne				1																								
Union					2																				2		2	
Vermilion																												
Vernon					7		6				7																	
Washington					4				4																			
Webster					2																						3	
West Baton Rouge			2	6				1	8																			
West Carroll				2																								
West Feliciana				1					2																			
Winn		1																									1	
Multiparish	12	24	23	20	12	11	23	40	16	21	21	23	24	17	25	18	23	18	25	17	9	11	9	20	9	22	9	21

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