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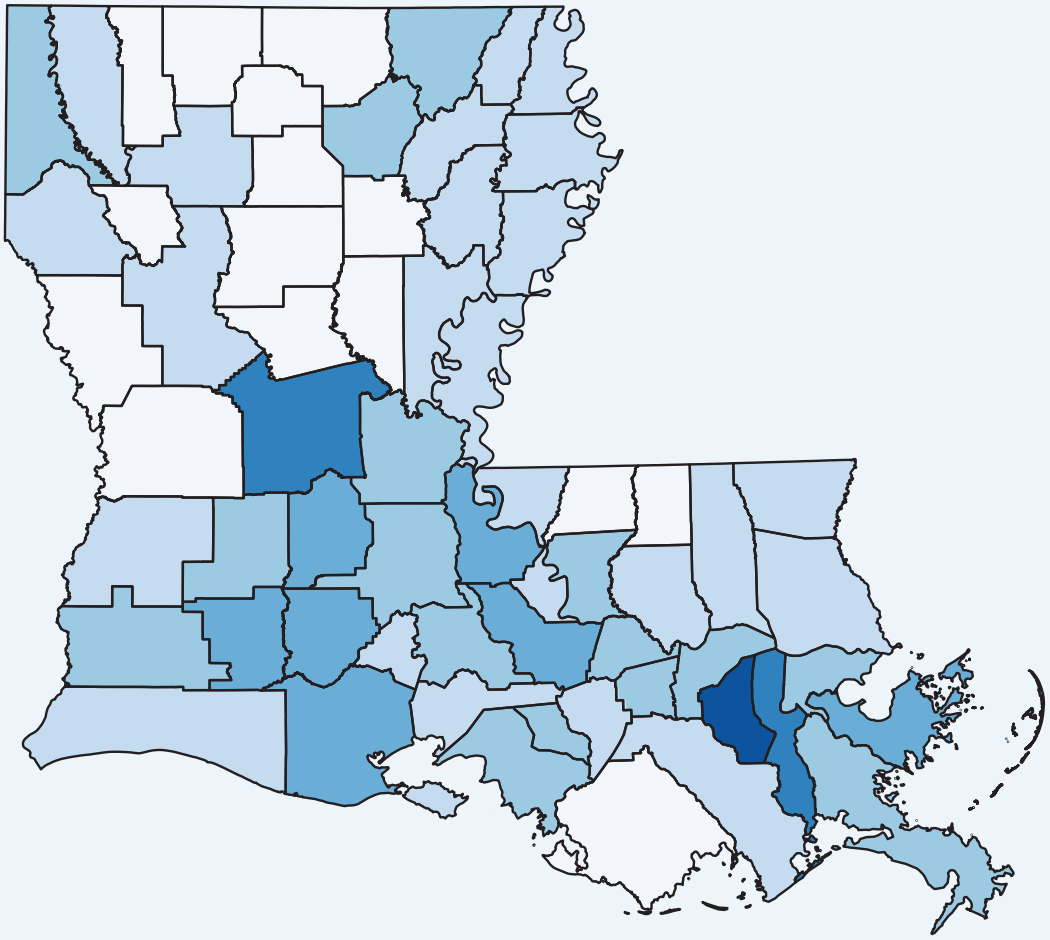
Water Use in Louisiana, 2020



Scientific Investigations Report 2026–5135

U.S. Department of the Interior
U.S. Geological Survey

Cover. Choropleth map representation of total water withdrawals in Louisiana, by parish, 2020. Darker shades correspond to areas having larger withdrawals.

Water Use in Louisiana, 2020

By Angela L. Robinson

Prepared in cooperation with the Louisiana Department of Transportation and Development

Scientific Investigations Report 2026–5135

U.S. Department of the Interior
U.S. Geological Survey

U.S. Geological Survey, Reston, Virginia: 2026

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Conversion Factors

U.S. customary units to International System of Units

Multiply	By	To obtain
	Length	
mile (mi)	1.609	kilometer (km)
	Area	
acre	4,047	square meter (m^2)
square mile (mi^2)	2.590	square kilometer (km^2)
	Volume	
million gallons (Mgal)	3,785	cubic meter (m^3)
	Flow rate	
acre-foot per year (acre-ft/yr)	0.001233	cubic hectometer per year (hm^3/yr)
gallon per day (gal/d)	0.003785	cubic meter per day (m^3/d)
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m^3/s)

Water Use in Louisiana, 2020

By Angela L. Robinson

Abstract

The U.S. Geological Survey (USGS), in cooperation with the Louisiana Department of Transportation and Development, collected water-withdrawal and water-use data from a 2020 inventory of water withdrawals in Louisiana. In 2020, approximately 8,700 million gallons per day (Mgal/d) of water was withdrawn from groundwater and surface-water sources in Louisiana, which represented a 0.22-percent decrease from 2015. Total groundwater withdrawals were about 1,900 Mgal/d, an increase of 7.1 percent from 2015, and total surface-water withdrawals were about 6,800 Mgal/d, a decrease of 2.1 percent from 2015 to 2020.

Total water withdrawals, in million gallons per day, in 2020 for the various categories of use were as follows: public supply, 720; industry, 2,100; power generation, 4,100; rural domestic, 39; livestock, 7.0; rice irrigation, 930; general irrigation, 250; and aquaculture, 590. From 2015 to 2020, Louisiana's total withdrawals for public supply increased by 1.4 percent, industry decreased by 2.3 percent, power generation decreased by 4.9 percent, rural domestic decreased by 1.2 percent, livestock increased by 11 percent, rice irrigation increased by 13 percent, general irrigation increased by 12 percent, and aquaculture increased by 20 percent.

About 51 percent (approximately 960 Mgal/d) of all groundwater withdrawn was from the Chicot aquifer system and 24 percent (approximately 450 Mgal/d) was withdrawn from the Mississippi River alluvial aquifer. Since 2015, withdrawals from the Chicot aquifer system increased by 13 percent, and withdrawals from the Mississippi River alluvial aquifer increased by 18 percent. About 72 percent (4,900 Mgal/d) of all surface water withdrawn was from the Mississippi River main stem. This value represents a 1.1-percent decrease in withdrawals from 2015 to 2020.

All water-withdrawal and water-use data presented in this report should be considered estimates. Because of rounding, totals and percentages presented in the tables, figures, and text in the report may differ slightly from totals or percentages calculated individually.

Introduction

Louisiana has a total land and water area of over 52,000 square miles (U.S. Census Bureau, 2012), and water resources are abundant throughout the State. Every day, large amounts of groundwater and surface water are withdrawn from natural sources and are used for public-supply, industrial, power-generation, rural-domestic, livestock, irrigation, and aquaculture purposes. Water-use data are essential to appraise the effects of present use and to plan for the future use of Louisiana's water resources. The U.S. Geological Survey (USGS), in cooperation with the Louisiana Department of Transportation and Development, has collected and published water-withdrawal and water-use information on a 5-year basis since 1960.

Purpose and Scope

The purpose of this report is to present data from a 2020 inventory of water withdrawals in Louisiana. This report presents information on withdrawals from groundwater and surface-water sources for use in public supply, industry, power generation, rural domestic, livestock, irrigation, and aquaculture for each parish in Louisiana. Included in the report are tables of water use by category, parish, aquifer or aquifer system, and surface-water basin. This report also presents trends in Louisiana water withdrawals based on data from previous 5-year water-use reports developed since 1960 (Snider and Forbes, 1961; Bieber and Forbes, 1966; Dial, 1970; Cardwell and Walter, 1979; Walter, 1982; Lurry, 1987; Lovelace, 1991; Lovelace and Johnson, 1996; Sargent, 2002; Sargent, 2007; Sargent, 2012; and Collier and Sargent, 2018).

Presentation of Data

The 2020 water-use data in this report are aggregated by category of use, parish, water source, aquifer, and surface-water basin. The information is presented in several formats to offer a complete description of water use in Louisiana.

The section entitled "Water Use by Category" describes the 2020 groundwater and surface-water withdrawals for public-supply, industrial, power-generation, rural-domestic, livestock, irrigation, and aquaculture purposes. Graphical and tabular data for each parish, major aquifer, and surface-water

basin in Louisiana are presented in the report. Each of Louisiana's 64 parishes (fig. 1) are presented in alphabetical order by parish name in appendix 1. Water-withdrawal and water-use data are also presented for the 13 major aquifers or aquifer systems, listed in order from youngest to oldest (figs. 2, 3), and for the 10 surface-water basins (fig. 4). Additionally, the report contains sections on total water withdrawals and trends in water withdrawals and water use in Louisiana as evaluated since 1960.

Data in this report are compiled from reported and estimated water withdrawals made during the 2020 calendar year. The data are limited by the accuracy of the information reported by the individual facilities or users and by the accuracy of ancillary data and methods used to estimate withdrawals when reported withdrawals were unavailable. All water-withdrawal and water-use data presented in this report should be considered estimates. Water-use values presented in tables and figures have been rounded to two decimal places, and water-use values presented in the text have been rounded to two significant figures. However, all totals and percentages presented in the report were calculated using unrounded values stored in a water-use database at the USGS office in Baton Rouge, La. Because of this rounding, totals and percentages presented in tables, figures, and text in the report may differ slightly from totals or percentages calculated by using rounded numbers in the report. (For example, as stated

Base modified from U.S. Geological Survey digital data
Universal Transverse Mercator, zone 15 north
North American Datum of 1983

Figure 1. Parishes in Louisiana.

System	Series	Stratigraphic unit	Hydrogeologic unit							
			Northern Louisiana	Central and southwestern Louisiana			Southeastern Louisiana			
			Aquifer or confining unit	Aquifer system or confining unit	Aquifer or confining unit		Aquifer system or confining unit[1]	Aquifer or confining unit[2]		
					Lake Charles area	Rice growing area		Baton Rouge area	St. Tammany, Tangipahoa, and Washington Parishes	New Orleans area and lower Mississippi River Parishes[3]
Quaternary	Holocene	Red River alluvial deposits Mississippi River alluvial deposits	Red River alluvial aquifer or surficial confining unit Mississippi River alluvial aquifer or surficial confining unit	Units absent			Mississippi River alluvial aquifer or surficial confining unit	Mississippi River alluvial aquifer or surficial confining unit	Units absent	
	?									
	Pleistocene	Northern Louisiana terrace deposits Unnamed Pleistocene deposits	Upland terrace aquifer or surficial confining unit	Chicot aquifer system or surficial confining unit	"200-foot" sand	Upper sand unit	Chicot equivalent aquifer system or surficial confining unit	Shallow sands Upland terrace aquifer "400-foot" sand "600-foot" sand	Upland terrace aquifer Upper Ponchatoula aquifer	Gramercy aquifer Norco aquifer Gonzales-New Orleans aquifer "1,200-foot" sand
					"500-foot" sand "700-foot" sand	Lower sand unit				
Tertiary	Pliocene	Fleming Formation: Blounts Creek Member	Aquifers in Pliocene–Miocene sediments are absent in this area	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 Kentwood aquifer Big Branch aquifer Abita aquifer Covington aquifer Slidell aquifer	
	?									
	Miocene	Fleming Formation: Castor Creek Member		Castor Creek confining unit			Unnamed confining unit			
		Fleming Formation: Williamson Creek Member Dough Hills Member Carnahan Bayou Member		Jasper aquifer system or surficial confining unit	Williamson Creek aquifer Dough Hills confining unit Carnahan Bayou aquifer		Jasper equivalent aquifer system or surficial confining unit	"2,000-foot" sand "2,400-foot" sand "2,800-foot" sand	Tchefuncte aquifer Hammond aquifer Amite aquifer Ramsay aquifer Franklinton aquifer	
		Fleming Formation: Lena Member		Lena confining unit			Unnamed confining unit			
	?									
	Oligocene	Catahoula Formation		Catahoula aquifer			Catahoula equivalent aquifer system or surficial confining unit	Catahoula aquifer		
		Vicksburg Group, undifferentiated	Vicksburg-Jackson confining unit	No freshwater occurs in deeper units						
	Eocene	Jackson Group, undifferentiated								
		Claiborne Group: Cockfield Formation	Cockfield aquifer or surficial confining unit							
		Claiborne Group: Cook Mountain Formation	Cook Mountain aquifer or surficial confining unit							
		Claiborne Group: Sparta Sand	Sparta aquifer or surficial confining unit							
		Claiborne Group: Cane River Formation	Cane River aquifer or surficial confining unit							
		Claiborne Group: Carrizo Sand	Carrizo-Wilcox aquifer or surficial confining unit							
		?								
	Paleocene	Wilcox Group, undifferentiated								
		Midway Group, undifferentiated	Midway confining unit							

[1]The interval containing the four aquifer systems is called the Southern Hills aquifer system.

[2]Clay units separating aquifers in southeastern Louisiana are discontinuous, unnamed, and not listed herein.

[3]The interval containing the four aquifers is called the New Orleans aquifer system.

Figure 2. Hydrogeologic units in Louisiana (modified from Lovelace and Lovelace, 1995).

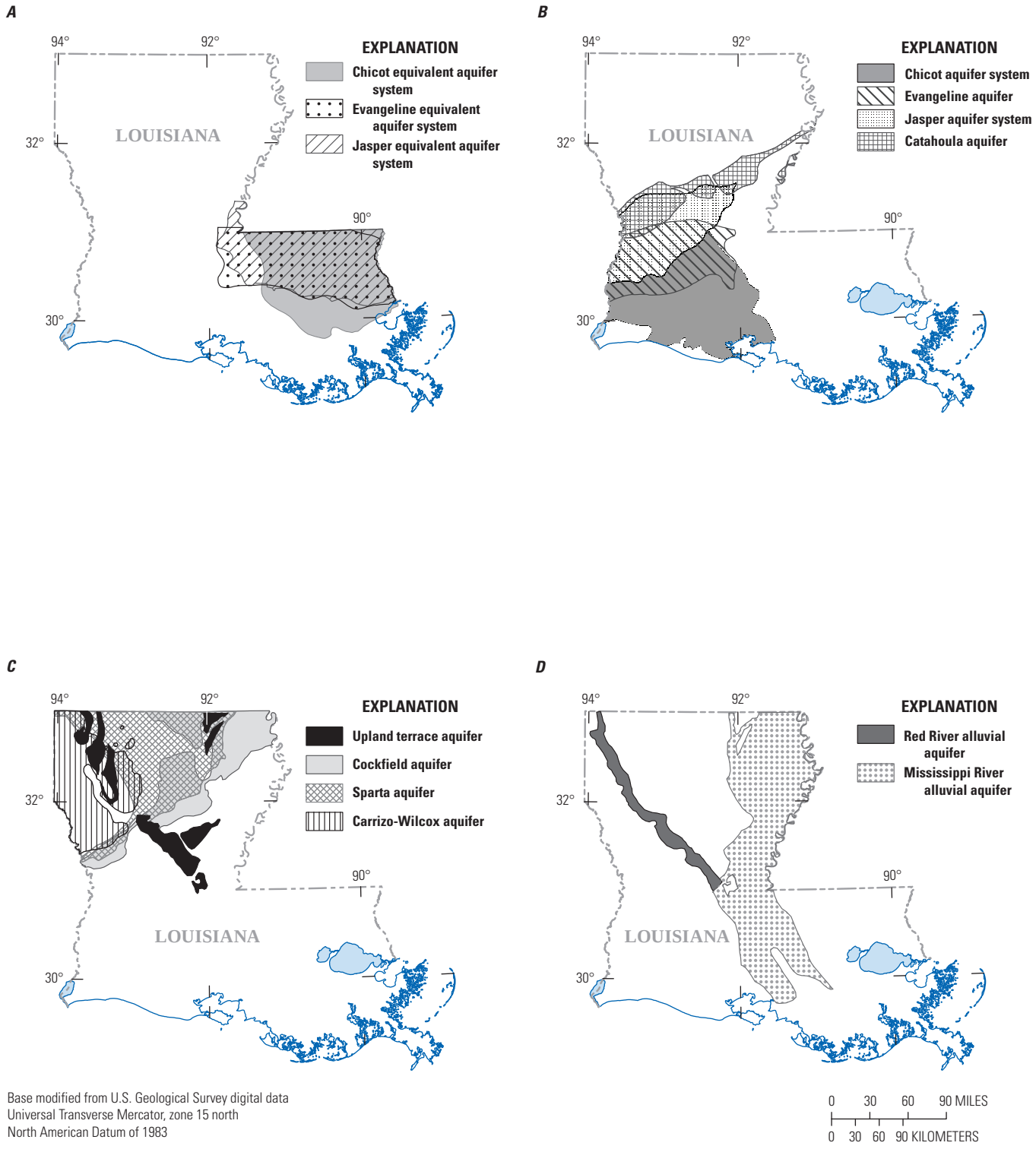

Figure 3. Approximate areal extent of Louisiana's freshwater aquifers and aquifer systems, by region: *A*, southeastern (Jasper, Evangeline, and Chicot equivalent aquifer systems); *B*, central and southwestern (Catahoula and Evangeline aquifers and Jasper and Chicot aquifer systems); *C*, northern (upland terrace, Sparta, Carrizo-Wilcox, and Cockfield aquifers); and *D*, the Mississippi River and Red River alluvial aquifers (modified from Stuart and others, 1994).

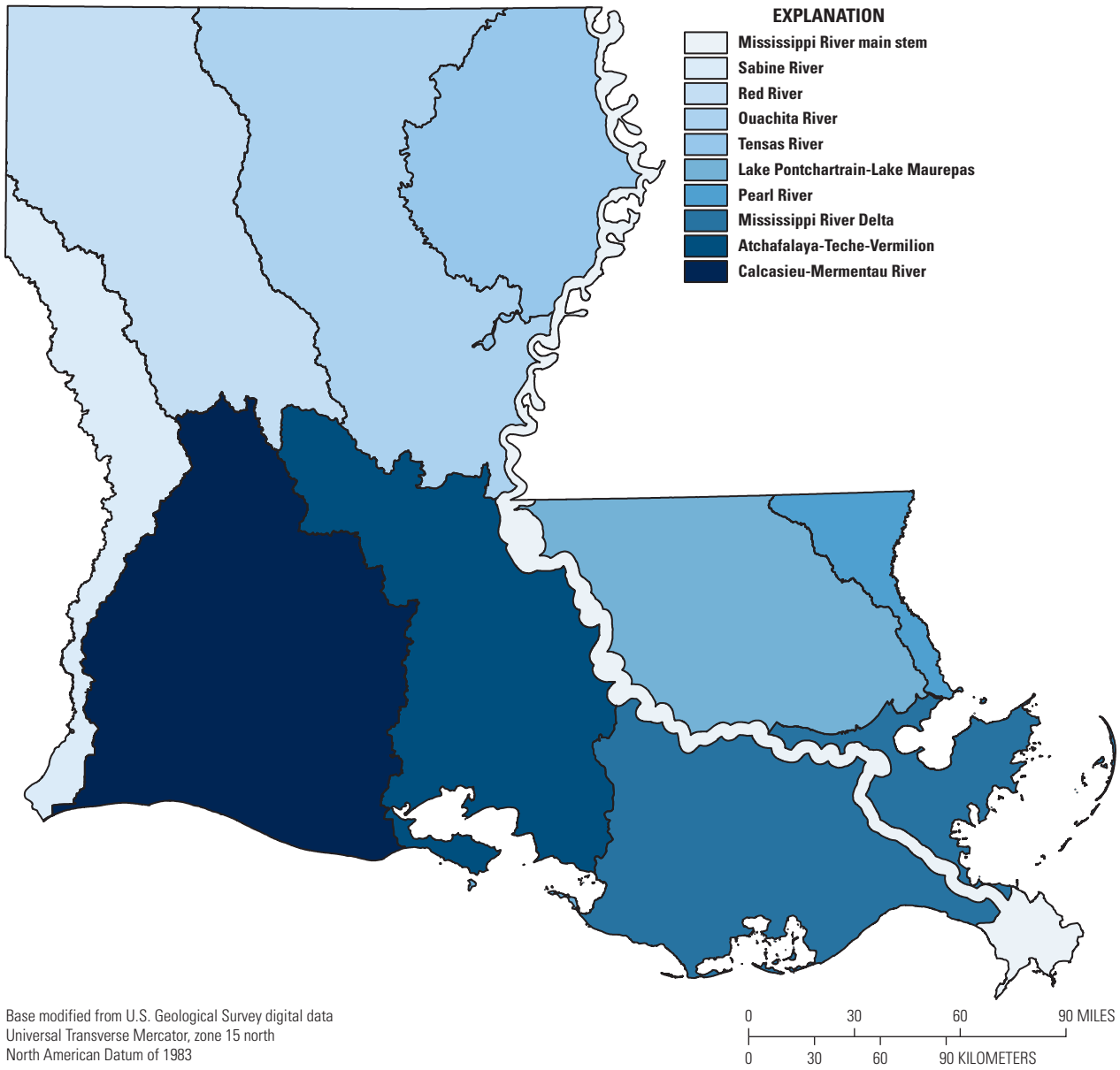

Figure 4. Major surface-water basins in Louisiana (modified from Garrison and Covay, 1994).

in the section "Public Supply," withdrawals for public supply totaled approximately 720 million gallons per day [Mgal/d], but using the rounded total for each source [groundwater, 360 Mgal/d, and surface water, 370 Mgal/d], the sum is 730 Mgal/d.) Withdrawals that were less than 0.005 Mgal/d are not shown in tables or on figures, unless otherwise noted, but are included in calculations of percentages and totals. All historical withdrawal data (years 1960–75) presented in bar charts are from previous 5-year water-use data compilations and are presented without interpretation. Historical water-use data are updated and corrected as new information becomes available. Because of this practice, water-use values from years prior to 2020 that are presented in this report may not exactly match data presented in previously published 5-year water-use reports.

Previous Reports

The previous 5-year reports that have been published are as follows: Snider and Forbes (1961), Bieber and Forbes (1966), Dial (1970), Cardwell and Walter (1979), Walter (1982), Lurry (1987), Lovelace (1991), Lovelace and Johnson (1996), Sargent (2002, 2007, 2012), and Collier and Sargent (2018). In addition, the 2015 report was accompanied by a related data release, which contained water withdrawn in 2014 and 2015, tabulated by parish, water-use category, source type, and designated source name (Collier, 2018). Related, special-topic reports, include Lurry (1985) and Stuart and Lurry (1988), which discuss specific information about public water supplies in Louisiana, and Lovelace (1994), which discusses water requirements for crawfish farming at selected sites

in south-central Louisiana. Additionally, Covay and others (1992) reported on water requirements for growing rice in southwestern Louisiana, 1985–86.

Data Collection and Estimation

Water-withdrawal information for public-supply, industrial, and power-generation facilities was primarily obtained directly from the facilities. The main source for public water system information was the Louisiana Department of Health's Safe Drinking Water Program, Drinking Water Watch database (Louisiana Department of Health, 2020) and the U.S. Environmental Protection Agency's Safe Drinking Water Information System (U.S. Environmental Protection Agency, 2020). These sources provided contact information, identified whether the water source was groundwater or surface water, and indicated the current operational status (active or inactive) for all the current water suppliers in a parish. The Louisiana Manufacturing Industry Database (Manufacturers' News, Inc., 2020), an online directory that lists Louisiana manufacturers and their contact information, was the main source for industrial facilities, and the U.S. Energy Information Administration (U.S. Energy Information Administration, 2021), along with prior information acquired during previous compilations, provided the majority of the information for power-generation facilities. Hydroelectric power-generation instream water use was not included in surface-water withdrawals in this report because the water was not considered withdrawn but is discussed in the "Power Generation" subsection of "Water Use by Category." A master list of these water-use facilities was compiled into a local database at the USGS office in Baton Rouge, La.

Water withdrawals for rural-domestic and livestock uses were estimated on the basis of population data and per capita use rates. Population data were compiled from multiple sources. Parish and State population estimates for 2020 were obtained from the U.S. Census Bureau (2020) and rural-domestic populations for each parish were based on U.S. Census Bureau's American Housing Survey (U.S. Census Bureau, 1993, 2011), which reported estimates of populations served by a public-supply facility. For the purpose of this report, an average of 80 gallons per day (gal/d) per person was used to estimate withdrawals by the rural-domestic portion of the population (Lurry, 1987). Population data used for livestock estimates were from the Louisiana Cooperative Extension Service (2023). In Louisiana, livestock that require substantial amounts of water included cattle, horses, swine, sheep, and poultry. For consistency and comparability with past water-use reports, the per capita use rates for livestock from previous reports were used to estimate withdrawals for livestock. The rates used (in gal/d per head) were as follows: milk cows, 20; other cattle, 10; horses, 10; swine, 3.0; sheep, 2.0; and poultry, 0.04 (Lovelace and Johnson, 1996, p. 11).

Water withdrawals for irrigation were estimated on the basis of crop acreage in each parish and irrigation application rates. Several different sources were used to study and develop estimates of water application-rate data for crop irrigation. The sources included the U.S. Department of Agriculture's 2017 Census of Agriculture and 2018 Irrigation and Water Management Survey (National Agricultural Statistics Service, 2019a, b) in addition to the Louisiana State University Agricultural Extension. All crop-acreage data originated from inventories compiled by the Louisiana Cooperative Extension Service (2023) for calendar year 2020.

Water withdrawals for aquaculture were estimated on the basis of reported and estimated use. Water withdrawals at bait farms and fish hatcheries were obtained directly from the facilities. Water withdrawals for crawfish, catfish, and alligator farms were estimated for each parish using 2020 acreage or other production data available from the Louisiana Cooperative Extension Service (2023) and application rates for crawfish and catfish were obtained from the Louisiana State University Agricultural Extension Service.

Water-use information was compiled and divided into two groups: site-specific and aggregate. The information for public-supply, industrial, and power-generation facilities was collected for specific sites; that is, the location of the facility and its water sources were known and recorded with the withdrawal data. The information for rural-domestic, livestock, irrigation, and aquaculture withdrawals was estimated parish-wide, without knowledge of the exact location of each user or source of water. For these parish-wide, aggregated withdrawals, per capita use rates were used to estimate withdrawals for livestock and aquaculture, and water was distributed on the basis of data reported by farmers and county agents. Louisiana water-well registration inventories provided by the Louisiana Department of Natural Resources include data on the distribution of irrigation wells screened in different aquifers within a parish (Louisiana Department of Natural Resources, 2020). This information was used to distribute aggregated groundwater withdrawal data among the appropriate aquifers. Aggregated surface-water withdrawals in each parish were distributed among hydrologic basins on the basis of the percentage of the parish within each basin. Seasonal withdrawals, such as for irrigation and sugar cane processing, were prorated for the entire year.

All the water-use information was entered into a database at the USGS office in Baton Rouge, La. All withdrawal data in this report were retrieved from the USGS database and are expressed in millions of gallons per day (Mgal/d). The withdrawal data used in this report are available online in an associated U.S. Geological Survey data release (Robinson, 2025).

Most of the uses of water described in this report require freshwater, which, for purposes of this report, is defined as water containing less than 1,000 milligrams per liter (mg/L) of dissolved solids, or, for drinking water, less than 250 mg/L of chloride (U.S. Environmental Protection Agency, 2024). Most of the water withdrawals described in this report were assumed

to be fresh. However, in some areas of Louisiana, especially near the Gulf of Mexico, USGS historical data indicate that chloride concentrations could exceed 250 mg/L, indicating a presence of saline water (Tollett and others, 2003; Lovelace, 2007). Collection and presentation of chloride concentrations in water withdrawn was beyond the scope of this study.

Water Use by Category

Water use is defined in this report as water withdrawn or diverted from a groundwater or surface-water source to be used for public-supply, industrial, power-generation, rural-domestic, livestock, irrigation, or aquaculture purposes. The glossary at the end of this report offers further explanation of the water-use categories that are discussed in this section.

In 2020, withdrawals for power generation accounted for about 47 percent of the total water withdrawn from both groundwater and surface-water sources, industry accounted for 24 percent, irrigation (rice and general irrigation combined) 14 percent, public supply 8.3 percent, aquaculture 6.8 percent, and rural domestic and livestock combined accounted for the approximated remainder of 0.53 percent (fig. 5). Irrigation accounted for the greatest percentage of groundwater withdrawals, about 43 percent of the total (fig. 6), and power generation was the category with the greatest surface-water withdrawals in the State, accounting for about 59 percent of the total withdrawals from all surface-water sources (fig. 7).

Public Supply

Approximately 4.2 million people, 90 percent of Louisiana's total population of 4.7 million in 2020 (U.S. Census Bureau, 2020), used about 720 Mgal/d of water provided by public-supply facilities (figs. 8 and 9). This water accounted for about 8.3 percent of the total water withdrawn in the State. Per capita use was 170 gal/d. Of the 720 Mgal/d, about 360 Mgal/d was withdrawn from groundwater sources,

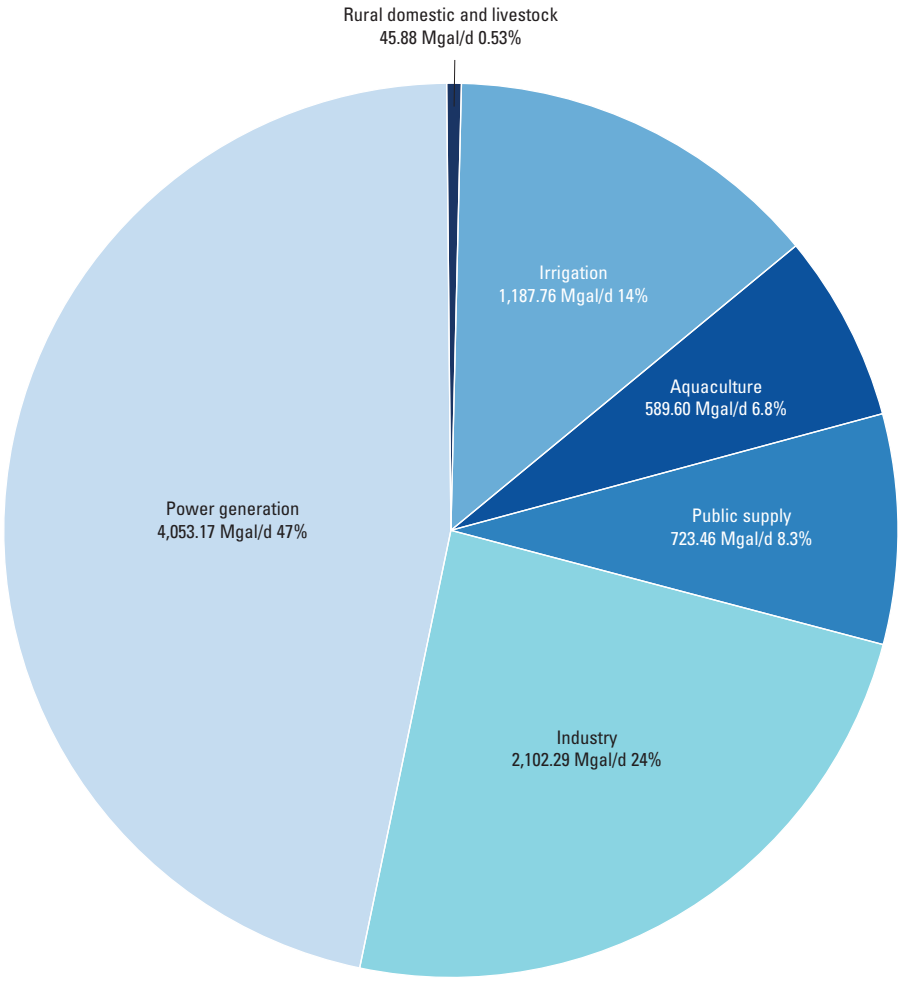

Figure 5. Total water withdrawals in Louisiana by water-use category, 2020 (Robinson, 2025). Mgal/d, million gallons per day; %, percent

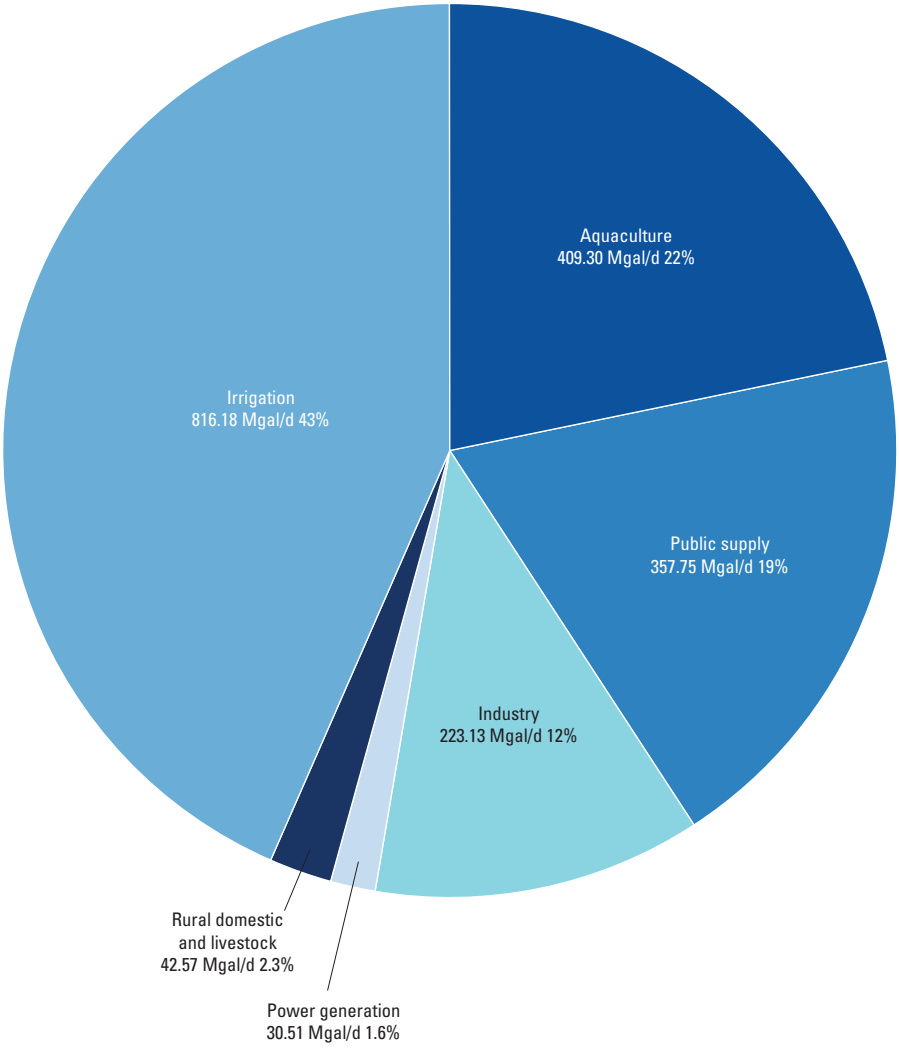

Figure 6. Groundwater withdrawals in Louisiana by water-use category, 2020 (Robinson, 2025). Mgal/d, million gallons per day; %, percent

and about 370 Mgal/d was withdrawn from surface-water sources. Of the 4.2 million people receiving water from a public supplier, about 64 percent were supplied with water from a groundwater source, and about 36 percent were provided with water from a surface-water source. Table 1 lists withdrawals from the top 25 public suppliers in Louisiana in 2020.

All major aquifers and aquifer systems in Louisiana were utilized as sources of water for public supply (fig. 3; appendix 2). In northern Louisiana, the chief source of groundwater was the Sparta aquifer, which provided 9.1 percent (33 Mgal/d) of all the groundwater used for public supply in the State. In southwestern Louisiana, the Chicot aquifer system was the major source of groundwater, providing 26 percent (93 Mgal/d) of the State's total groundwater used for public supply. In southeastern Louisiana, the Evangeline equivalent aquifer system provided 21 percent (76 Mgal/d) of the groundwater used for public supply in the State, and the Jasper equivalent aquifer system provided 19 percent (67 Mgal/d).

Of the 10 major surface-water basins in Louisiana (fig. 4), 7 were utilized as sources of water for public supply (appendix 3). The Mississippi River was the largest source of surface water used for public supply in the State. In 2020, about 240 Mgal/d of Mississippi River water was used, primarily to parishes in southeastern Louisiana where groundwater supplies are limited or unavailable. This amount represents 66 percent of the total surface-water withdrawals for public supply in Louisiana. Cross Lake (fig. 1) in the Red River basin supplied 10 percent of surface-water withdrawals for public supply (37 Mgal/d), and an additional 20 other major surface-water bodies provided the remaining 24 percent of surface withdrawals. In 2020, Orleans Parish had the greatest surface-water withdrawals by public suppliers, about 150 Mgal/d (appendix 1). At the time,

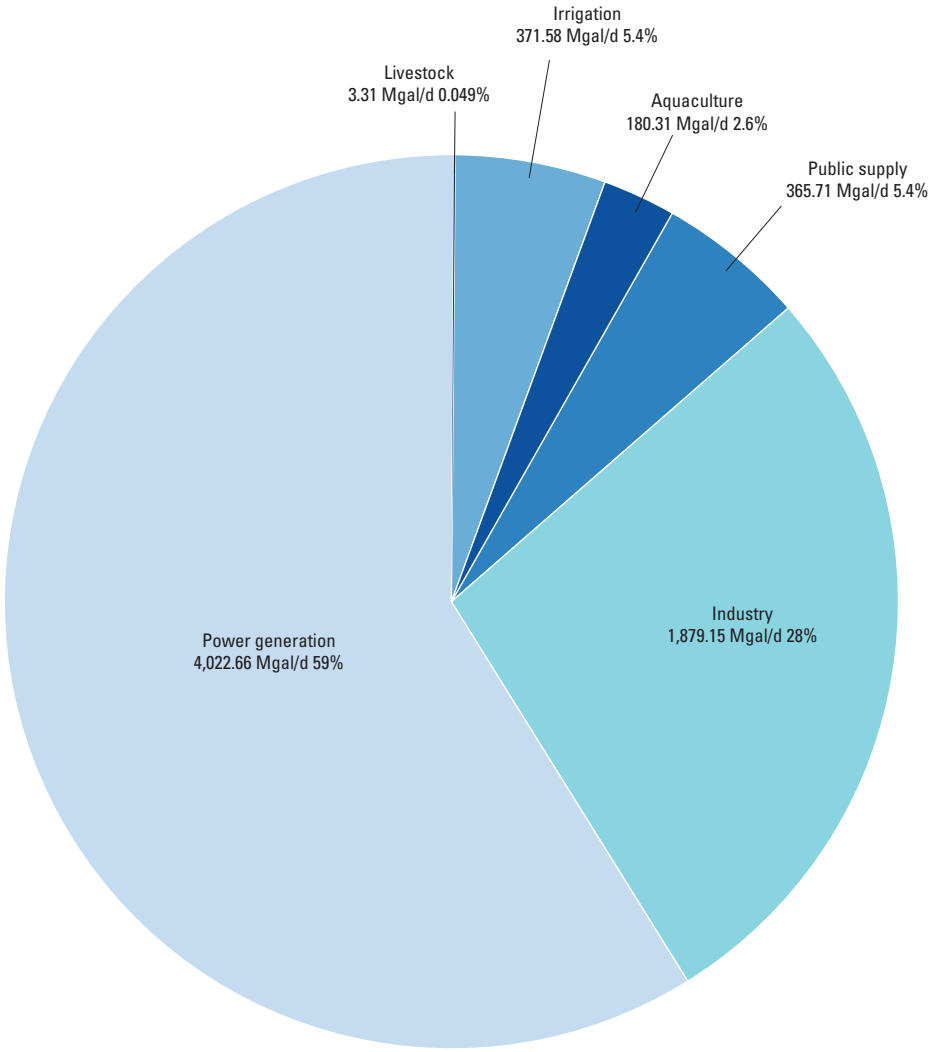

Figure 7. Surface-water withdrawals in Louisiana by water-use category, 2020 (Robinson, 2025). Mgal/d, million gallons per day; %, percent

approximately 380,000 people lived in Orleans Parish, making it the third most populated parish in the State (U.S. Census Bureau, 2020).

Some public-supply facilities provide water to industrial facilities. In 2020, public-supply facilities in Louisiana reported that about 2.6 Mgal/d was delivered to industrial facilities in 20 parishes. The greatest amount of water delivered to industries was in West Baton Rouge Parish, where public-supply deliveries totaled 1.5 Mgal/d (table 2).

Industry

Industrial facilities in Louisiana withdrew approximately 2,100 Mgal/d of water in 2020, about 220 Mgal/d of which was from groundwater sources and 1,900 Mgal/d from surface-water sources. Industrial withdrawals accounted for 24 percent of all withdrawals in 2020. Chemical manufacturers withdrew approximately 1,600 Mgal/d or 75 percent of total industrial withdrawals. Most of the surface water withdrawn by industry was used for once-through cooling and was returned to its source after use. Table 3 lists 2020 withdrawals by source and Standard Industrial Classification (SIC) code for the major industrial groups.

The majority of the 220 Mgal/d of groundwater withdrawn for industrial use in 2020 was in the southern portion of the State. In southeastern Louisiana, the Chicot, Evangeline, and Jasper equivalent aquifer systems provided approximately 90 Mgal/d or 40 percent of total groundwater withdrawals (appendix 2). The Evangeline and Catahoula aquifers and the Chicot and Jasper aquifer systems in the central and southwestern part of the State provided 83 Mgal/d, or 37 percent of total groundwater withdrawals. In northern

Table 1. Public-supply water withdrawals by top 25 public suppliers, 2020 (Robinson, 2025).

[Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. Withdrawals that were less than 0.005 Mgal/d but greater than 0 are shown as 0.00, and blank values indicate that there were no withdrawals. No., number; W.W. waterworks; --, no data]

Public supplier	Groundwater	Surface water
Alexandria Water System	9.69	--
Assumption Parish Waterworks No. 1	--	4.53
Baton Rouge Water Company	54.55	--
Bossier City Water System	--	15.45
East Jefferson W.W. District No. 1	--	38.32
Lafayette Utilities System	23.03	--
Lafourche Parish Water District No. 1	--	10.57
Lake Charles Water System	12.75	--
Monroe Water System	--	14.28
Natchitoches Utility System	--	5.91
New Iberia Water System	5.05	--
Opelousas Water System	4.08	--
Parish Water Company	10.29	--
Plaquemines Parish Water Works	--	6.13
Sewage & Water Board of New Orleans	--	145.78
Shreveport Water System	--	37.00
Slidell Water System	4.03	--
St. Bernard Parish Water and Sewerage Commission	--	8.07
St. Charles Waterworks District 1	--	4.31
St. John the Baptist Parish Utilities	9.66	3.03
Sulphur Water System	4.29	--
Tangipahoa Water District 2	7.77	--
Terrebonne Parish Consolidated W.W. District No. 1	--	15.13
Ward 2 Water District	6.97	--
West Jefferson W.W. District No. 2	--	23.21

Louisiana, the upland terrace, Cockfield, Sparta, and Carrizo-Wilcox aquifers provided 23 Mgal/d, or 10 percent. The Red River and Mississippi River alluvial aquifers provided 27 Mgal/d, the remaining 12 percent, of groundwater withdrawn for industrial use.

The major sources of surface water withdrawn for industrial use include the Mississippi River, Calcasieu River, the Sabine River Diversion System, and the Red River (fig. 1). Withdrawals and percentages of the total surface water withdrawn for industry by surface-water body are as follows: Mississippi River: 1,700 Mgal/d or 92 percent; Calcasieu River: 54 Mgal/d or 2.9 percent; Sabine River Diversion System: 41 Mgal/d or 2.2 percent; and Red River 19 Mgal/d or 1.0 percent. There were 16 other major contributing surface-water bodies, none of which provided more than 1 percent of total surface water withdrawn for industrial use, which, together, provided 46 Mgal/d or the remaining 2.4 percent.

Total industrial withdrawals were greatest in St. Charles and Iberville Parishes, with 570 and 460 Mgal/d, respectively; which, combined, accounted for 49 percent of total industrial withdrawals made in 2020 (fig. 10).

Power Generation

Power-generation facilities withdrew approximately 4,100 Mgal/d, or 47 percent of the total water withdrawn in Louisiana in 2020, making it the largest percentage of use out of all water-use categories. Of the total water withdrawn for power generation, 30 Mgal/d of groundwater and 2,900 Mgal/d of surface water were withdrawn for use in fossil-fuel plants, 3.1 Mgal/d of surface water was withdrawn for use in hydroelectric plants, and 0.013 Mgal/d of groundwater and 1,100 Mgal/d of surface water was withdrawn for use in nuclear plants. Total withdrawals were greatest in St. Charles Parish, which withdrew solely from

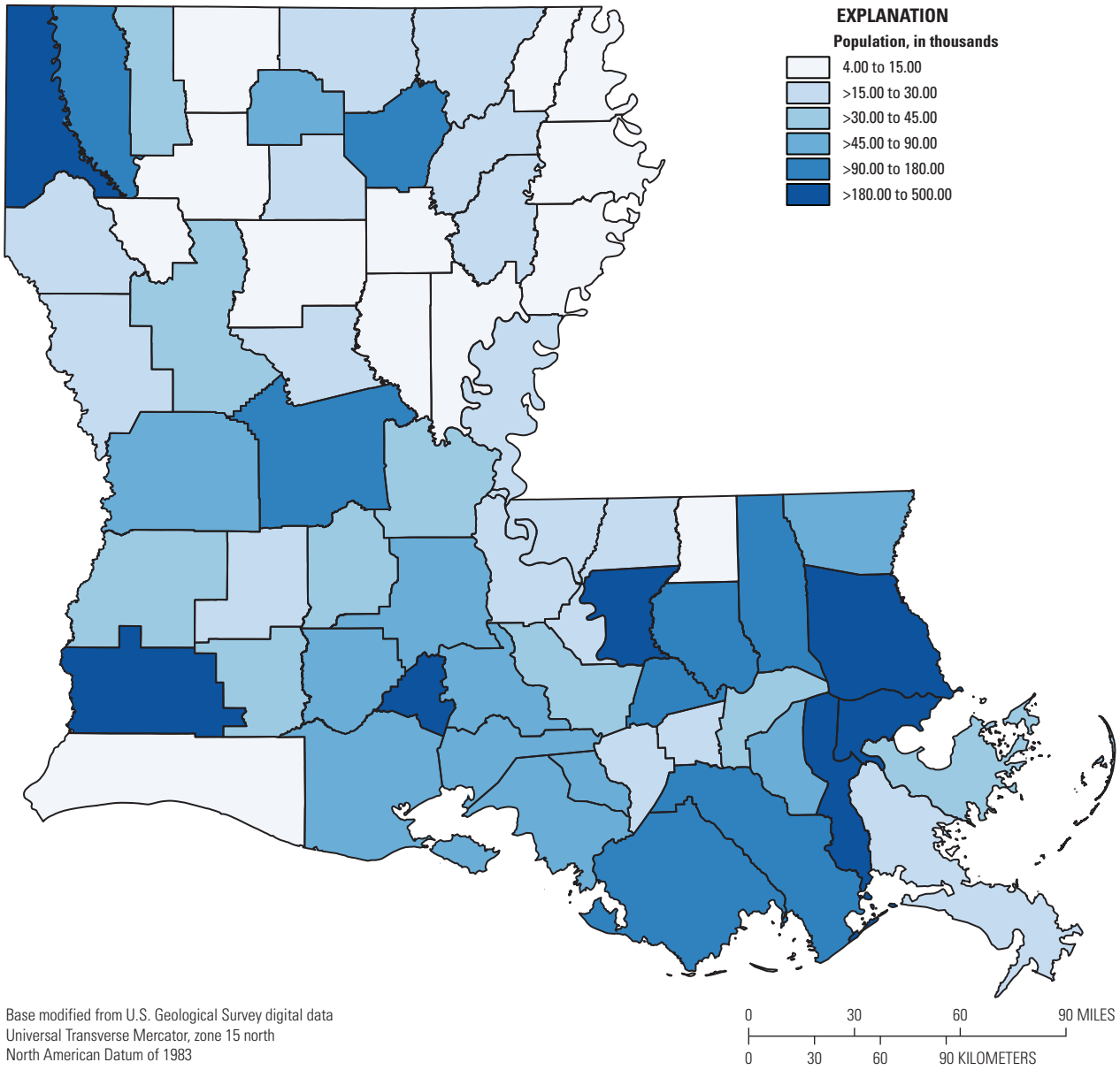

Figure 8. Louisiana population by parish, 2020 (U.S. Census Bureau, 2020).

surface-water sources, and accounted for approximately 1,900 Mgal/d, or 46 percent, of all withdrawals for power-generation purposes in 2020 (fig. 11).

Groundwater sources provided 31 Mgal/d, or 0.75 percent, of the water withdrawn for power generation. The Chicot and Jasper aquifer systems in southwestern Louisiana (figs. 2, 3; appendix 2) were the sources of 17 Mgal/d, or 55 percent, of the groundwater withdrawals for power generation. The remaining 14 Mgal/d, or 45 percent, of groundwater withdrawals were from the Chicot, Evangeline, and Jasper equivalent aquifer systems in southeastern Louisiana.

More than 99 percent, or 4,000 Mgal/d, of the total water withdrawn for power generation in 2020 originated from surface-water sources. The Mississippi River was the source for the majority of this surface water, providing an estimated 2,900 Mgal/d, or 73 percent, of total surface-water withdrawals for power-generation purposes. Most surface water withdrawn for power-generation purposes was used for cooling and was returned to its source after use.

In 2020, 71,000 Mgal/d of water passed through Louisiana's two hydroelectric powerplants. The larger of the two hydroelectric powerplants, located at the Old River Control Structure in southern Concordia Parish (fig. 1) near the Louisiana-Mississippi border, uses water from the Mississippi River. In 2020, an average of 69,000 Mgal/d passed through the plant's turbines. The second hydroelectric powerplant in Louisiana used water impounded in the Toledo Bend Reservoir in Sabine Parish on the Louisiana-Texas border (fig. 1) and released the water through the turbines

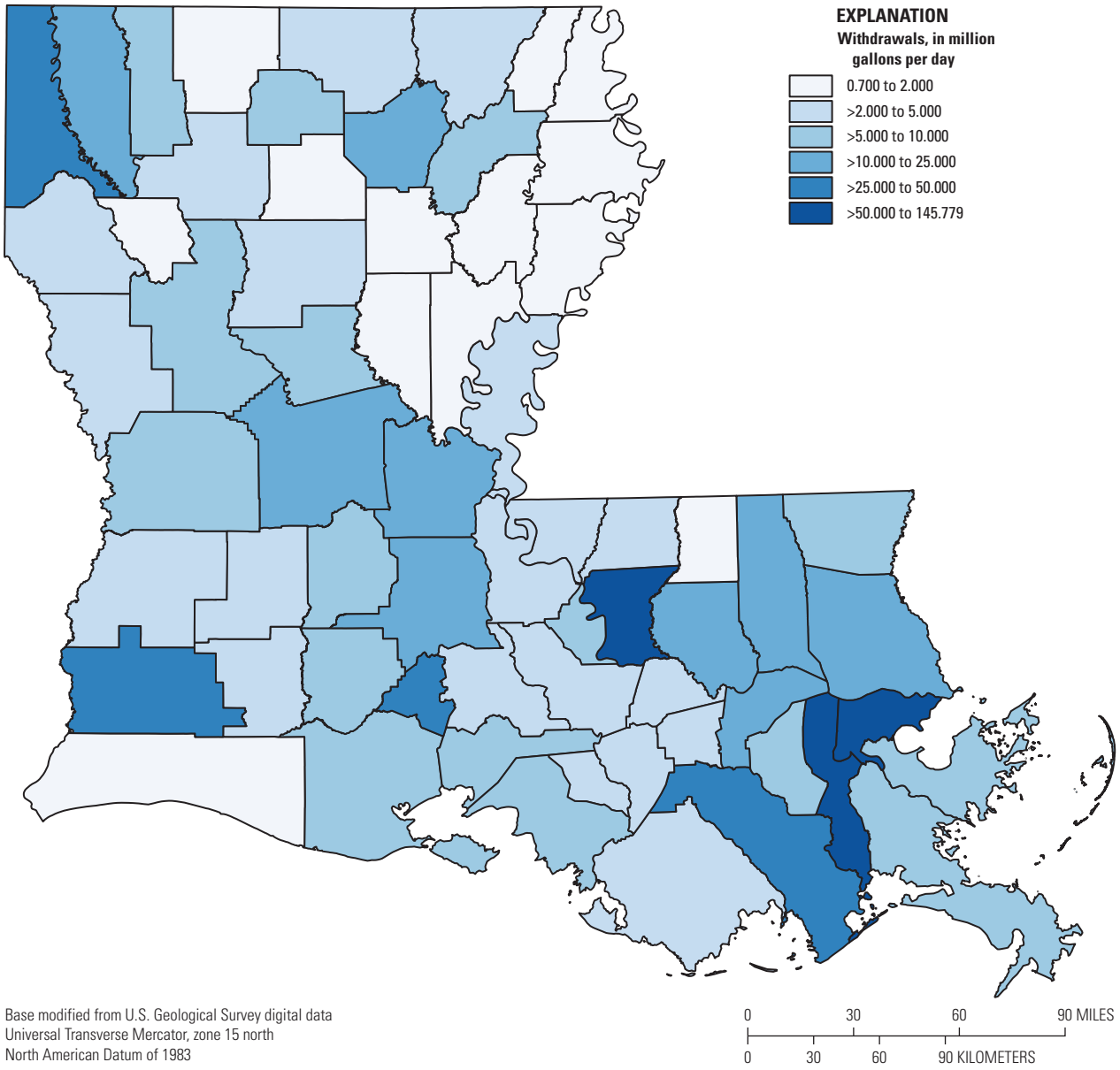

Figure 9. Public-supply water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

near Burkeville, Texas. Because the plant is located on the Louisiana-Texas border, one-half of the water used was counted in Louisiana's water-use inventory. In 2020, an average of 3,700 Mgal/d of water passed through the plant's turbines. Of this amount, 1,900 Mgal/d was counted as power-generation instream use for Louisiana. As mentioned previously, for the purpose of this report, this hydroelectric power-generation instream use was not included in the surface-water withdrawal totals.

Rural Domestic

Approximately 490,000 people, or 10 percent of Louisiana's population (U.S. Census Bureau, 2020), withdrew an estimated 39 Mgal/d of groundwater from privately owned domestic wells in 2020. Rural-domestic withdrawals accounted for about 0.45 percent of the total water withdrawn in the State in 2020.

Every major aquifer and aquifer system (fig. 3; appendix 2) was used as a source for rural-domestic water. Percentages of the total groundwater withdrawals for rural-domestic use by major and minor aquifers are as follows: major aquifers in southeastern Louisiana, 40 percent; major aquifers in the central and southwestern parts of the State,

Table 2. Public-supply water withdrawals delivered to industries in Louisiana by parish, 2020 (Robinson, 2025).

[Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. Withdrawals that were less than 0.005 Mgal/d but greater than 0 are shown as 0.00, and blank values indicate that there were no withdrawals. --, no data]

Parish	Withdrawals		Parish	Withdrawals	
	Groundwater	Surface water		Groundwater	Surface water
Acadia	--	--	Morehouse	--	--
Allen	--	--	Natchitoches	0.00	--
Ascension	--	--	Orleans	--	--
Assumption	--	--	Ouachita	--	--
Avoyelles	--	--	Plaquemines	--	--
Beauregard	--	--	Pointe Coupee	--	--
Bienville	0.19	--	Rapides	--	--
Bossier	0.00	--	Red River	--	--
Caddo	--	0.02	Richland	--	--
Calcasieu	0.26	--	Sabine	--	--
Caldwell	0.00	--	St. Bernard	--	--
Cameron	0.00	--	St. Charles	--	--
Catahoula	--	--	St. Helena	--	--
Claiborne	--	--	St. James	--	--
Concordia	0.27	--	St. John the Baptist	--	--
DeSoto	0.00	0.01	St. Landry	--	--
East Baton Rouge	--	--	St. Martin	--	--
East Carroll	--	--	St. Mary	0.03	--
East Feliciana	--	--	St. Tammany	--	--
Evangeline	0.00	--	Tangipahoa	--	--
Franklin	--	--	Tensas	--	--
Grant	0.00	--	Terrebonne	--	--
Iberia	--	--	Union	0.00	--
Iberville	--	--	Vermilion	--	--
Jackson	--	--	Vernon	0.26	--
Jefferson	--	0.03	Washington	0.01	--
Jefferson Davis	--	--	Webster	0.03	--
Lafayette	--	--	West Baton Rouge	1.45	--
Lafourche	--	--	West Carroll	--	--
LaSalle	--	--	West Feliciana	--	--
Lincoln	--	--	Winn	0.02	--
Livingston	0.01	--	**Total**	**2.55**	**0.06**
Madison	--	--			

33 percent; major aquifers in northern Louisiana, 19 percent; and minor aquifers throughout the State, 7.8 percent. St. Tammany Parish had the greatest withdrawals for rural-domestic use at 5.3 Mgal/d (fig. 12). It was assumed that little or no surface water was used for rural-domestic purposes in Louisiana because suitable groundwater that requires minimal treatment generally is available.

Livestock

In 2020, individual ranchers and farmers used approximately 7.0 Mgal/d of water for livestock operations, accounting for the smallest withdrawals of any category of use at about 0.081 percent of total water withdrawn in the State. Of the total withdrawals for livestock, 3.7 Mgal/d was groundwater, and 3.3 Mgal/d was surface water.

Table 3. Water withdrawals in Louisiana by major industrial group, 2020 (Robinson, 2025).

[Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. Source of Standard Industrial Classification: Office of Management and Budget (1987). NA, not applicable; --, no data]

Standard industrial classification		Withdrawals		
Code	Description	Groundwater	Surface water	Total
13	Oil and gas extraction	2.08	0.10	2.18
14	Nonfuels/nonmetals mining	0.22	--	0.22
20	Food products	17.51	25.54	43.04
24	Lumber	0.70	0.06	0.76
26	Paper products	77.12	63.59	140.71
28	Chemicals	74.88	1,491.96	1,566.84
29	Petroleum refining	42.42	297.84	340.26
30	Rubber and plastics	1.79	--	1.79
32	Glass, clay, and concrete	0.44	--	0.44
33	Primary metals	1.16	--	1.16
34	Metal products	0.22	--	0.22
35	Industrial machinery	0.03	--	0.03
37	Transportation equipment	0.01	0.08	0.08
38	Instrumentation	2.88	--	2.88
39	Miscellaneous manufacturing	0.03	--	0.03
42	Motor freight transportation and warehousing	0.01	--	0.01
44	Water transportation	0.32	--	0.32
Total	**NA**	**221.66**	**1,879.15**	**2,100.82**

Surface-water sources for livestock withdrawals generally included small streams, canals, and private ponds. Groundwater sources included most of the major aquifers and aquifer systems. The Chicot aquifer system provided 1.1 Mgal/d, or 29 percent; the Mississippi River alluvial aquifer provided 0.93 Mgal/d, or 25 percent; and the upland terrace aquifer provided 0.38 Mgal/d, or 10 percent, of groundwater withdrawals for livestock (fig. 3; appendix 2). The remaining 1.3 Mgal/d, or 36 percent, of withdrawals was distributed among other aquifers in amounts less than 0.3 Mgal/d. Calcasieu and Vermilion Parishes had the greatest withdrawals for livestock, 0.37 and 0.36 Mgal/d, respectively (fig. 13).

Rice Irrigation

Farmers withdrew approximately 930 Mgal/d of water to irrigate about 470,000 acres of rice in 2020. Rice was harvested in 29 parishes, mainly in southwestern and northeastern Louisiana (Louisiana Cooperative Extension Service, 2023). All rice grown in Louisiana is assumed to be irrigated, and the average application rate in 2020 was about 2.2 acre-feet (acre-ft) per acre per year.

Of the total amount of water withdrawn for rice irrigation, about 620 Mgal/d, or 67 percent, was from groundwater sources and about 310 Mgal/d, 33 percent, was from surface-water sources. The greatest source of groundwater was the Chicot aquifer system in southwestern Louisiana, providing 440 Mgal/d, or 71 percent, of the total groundwater withdrawals (fig. 3; appendix 2). The Mississippi River alluvial aquifer in northeastern Louisiana provided 170 Mgal/d, or 28 percent, whereas other aquifers in the State contributed 8.6 Mgal/d, or 1.4 percent. Surface-water sources included streams, lakes, bayous, and canals. The Mermentau River (fig. 1) provided the greatest percentage of surface-water withdrawals from a single waterbody throughout Louisiana at 140 Mgal/d, or 46 percent. Total withdrawals for rice irrigation were greatest in Acadia Parish at about 170 Mgal/d, of which about 120 Mgal/d came from groundwater sources and about 51 Mgal/d from surface-water sources (fig. 14).

General Irrigation

In 2020, farmers withdrew about 250 Mgal/d of water to irrigate approximately 550,000 acres of crops other than rice, mainly in northeastern Louisiana (fig. 15) (Louisiana Cooperative Extension Service, 2023). Crops with substantial amounts of irrigated acreage included cotton, corn, soybeans, sorghum, and berries, and the average application rate for these crops was about 0.55 acre-ft per acre per year.

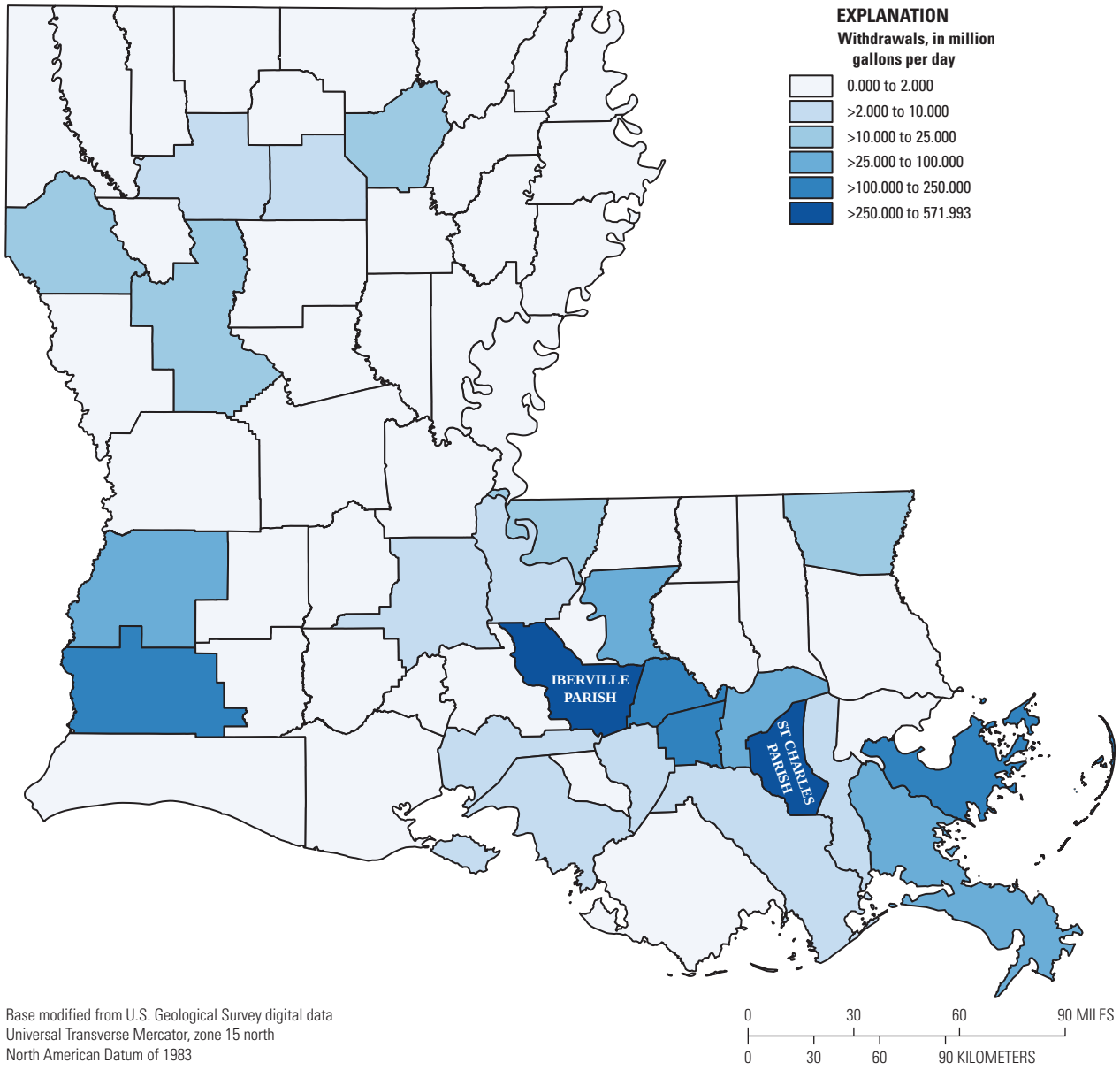

Figure 10. Industrial water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

Of the total withdrawals for general irrigation, about 190 Mgal/d, or 76 percent, was groundwater and 60 Mgal/d, or 24 percent, was surface water. The Mississippi River alluvial aquifer provided 170 Mgal/d, or 88 percent, of the total groundwater withdrawn for general irrigation; the Chicot aquifer system provided 9.0 Mgal/d, or 4.7 percent; and the other aquifers in the State provided 14 Mgal/d, or 7.2 percent (fig. 3; appendix 2). Surface-water sources included rivers and streams, lakes, bayous, and canals. The Boeuf River (fig. 1) provided the greatest percentage of surface-water withdrawals from a single waterbody throughout Louisiana at 11 Mgal/d, or 18 percent. Total withdrawals for general irrigation were greatest in Franklin Parish at about 31 Mgal/d, of which about 28 Mgal/d came from groundwater sources and about 3 Mgal/d from surface-water sources (fig. 15).

Aquaculture

In 2020, approximately 590 Mgal/d of water was withdrawn for aquaculture in Louisiana. Crawfish ponds demanded the vast majority of water used for aquaculture, with 99.8 percent of the water used to maintain water levels on 280,000 acres of crawfish ponds. Other uses for aquaculture included 0.04 percent on 84 acres of catfish ponds and 0.16 percent at alligator farms and other aquaculture facilities (Louisiana Cooperative Extension Service, 2023).

Of the total water withdrawn for aquaculture, about 410 Mgal/d was groundwater and about 180 Mgal/d was surface water. The Chicot aquifer system provided the greatest percentage of groundwater at 330 Mgal/d, or

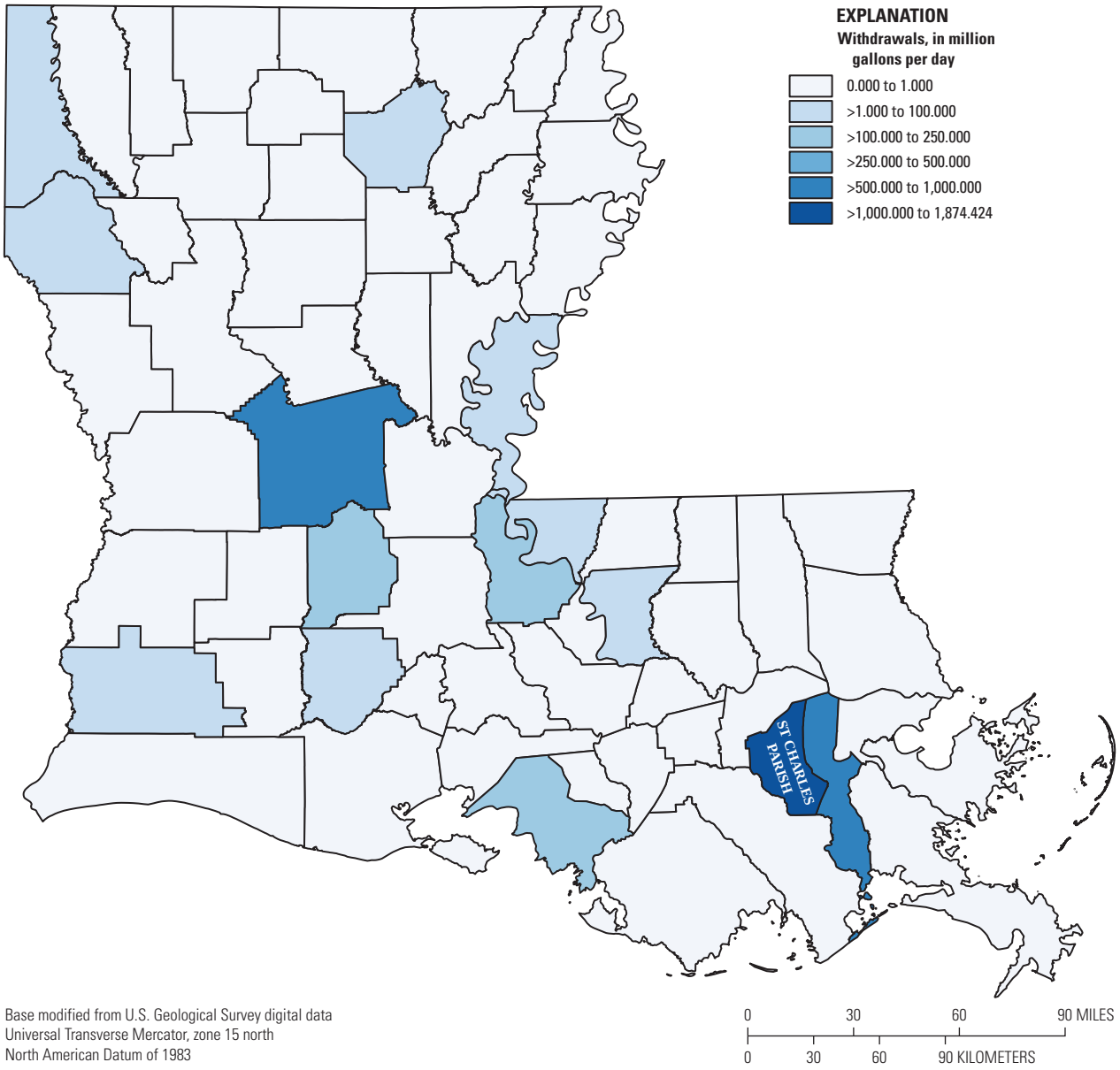

Figure 11. Power-generation water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

81 percent, followed by the Mississippi River alluvial aquifer at 68 Mgal/d, or 18 percent; the Evangeline aquifer at 6.4 Mgal/d, or 1.6 percent; and other aquifers (totaled) at 3.0 Mgal/d, or 0.74 percent (fig. 3; appendix 2). Numerous streams, rivers, and bayous were used as sources of surface water. The Mermentau River (fig. 1) provided the greatest percentage of surface-water withdrawals from a single waterbody throughout Louisiana at 31 percent (57 Mgal/d) of total surface-water withdrawals for aquaculture purposes. Total withdrawals for aquaculture were greatest in Jefferson Davis Parish, at about 130 Mgal/d, with about 53 Mgal/d originating from groundwater sources and about 79 Mgal/d from surface-water sources (fig. 16).

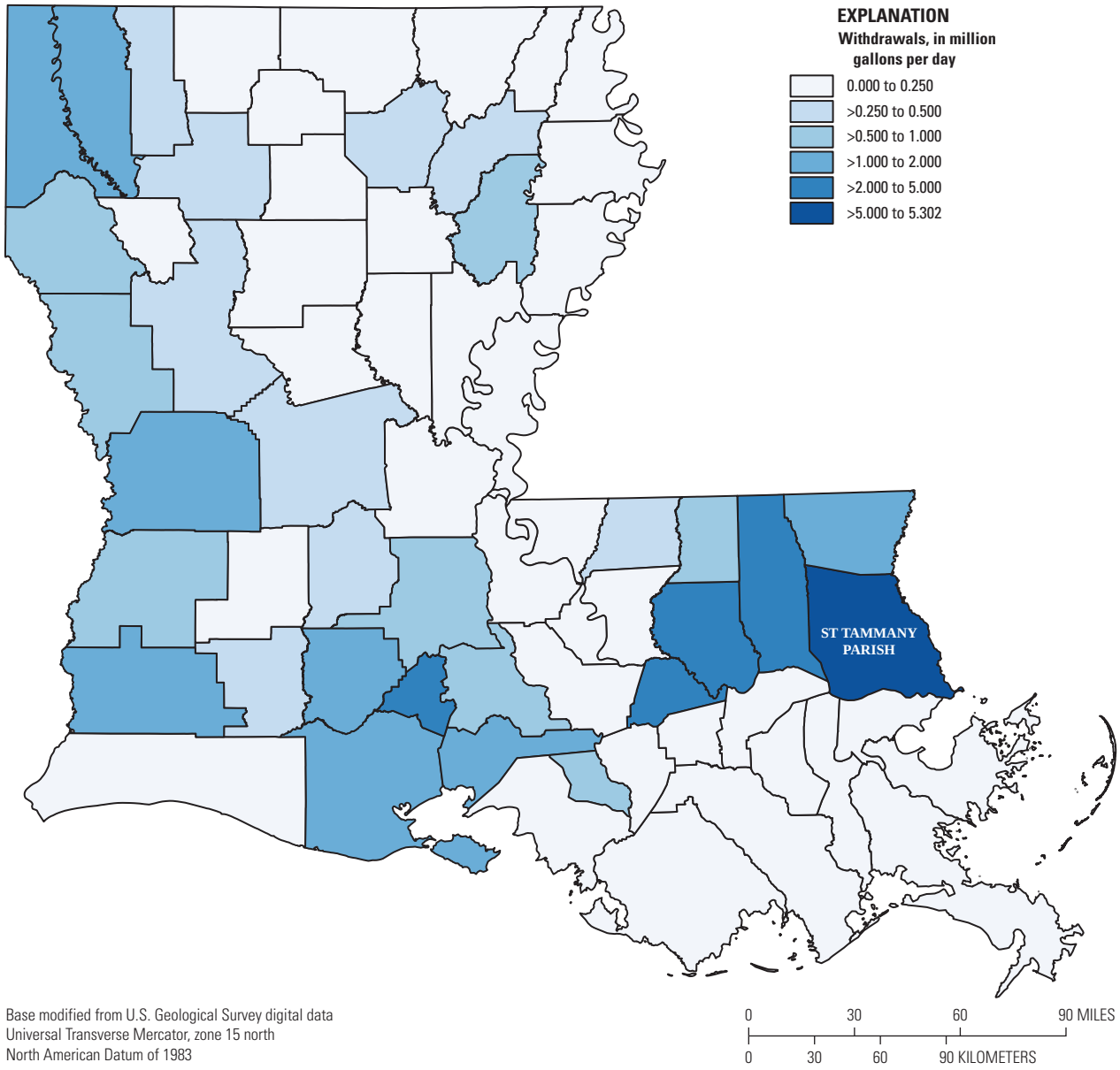

Figure 12. Rural-domestic water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

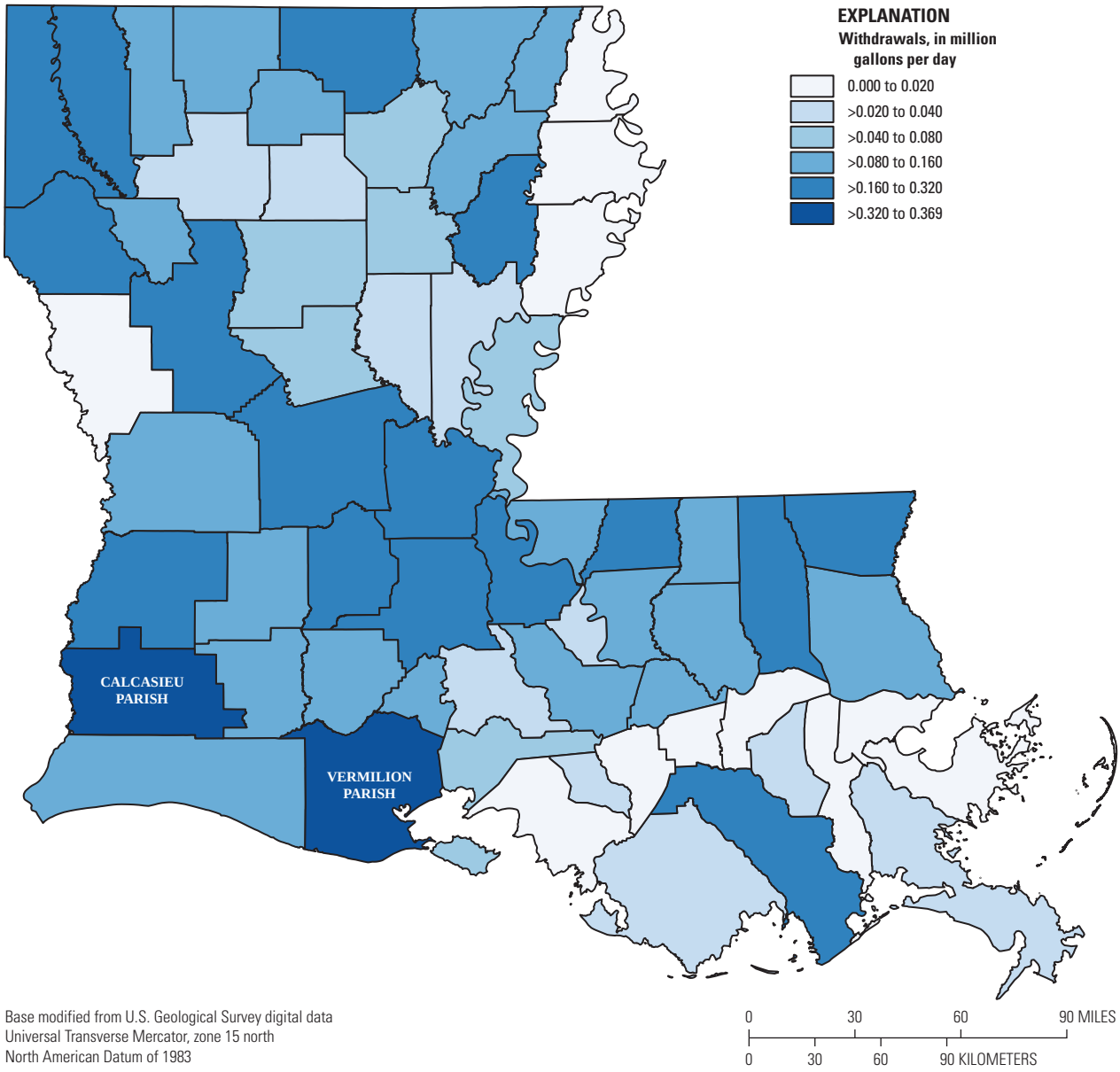

Figure 13. Livestock water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

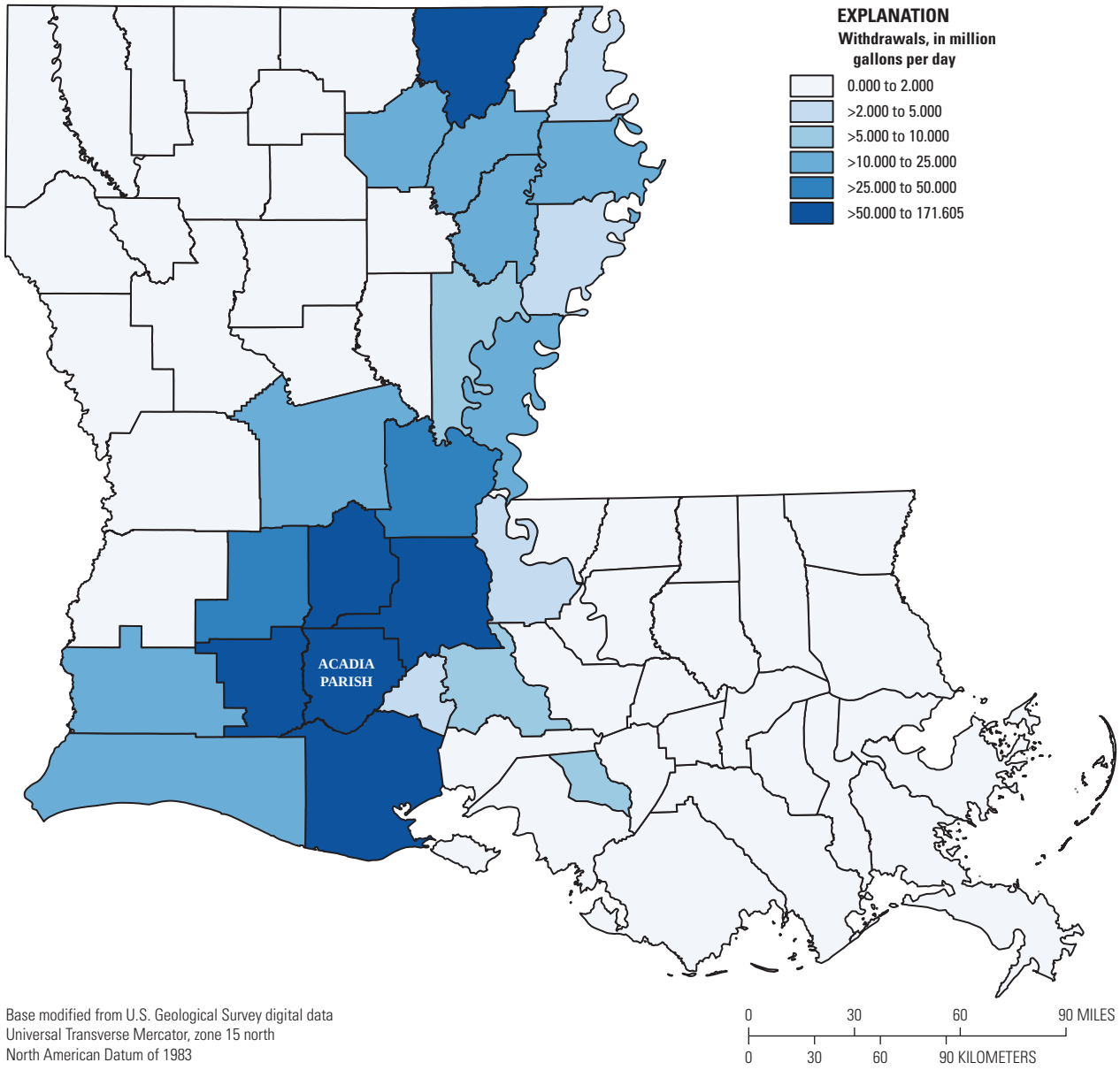

Figure 14. Rice-irrigation water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

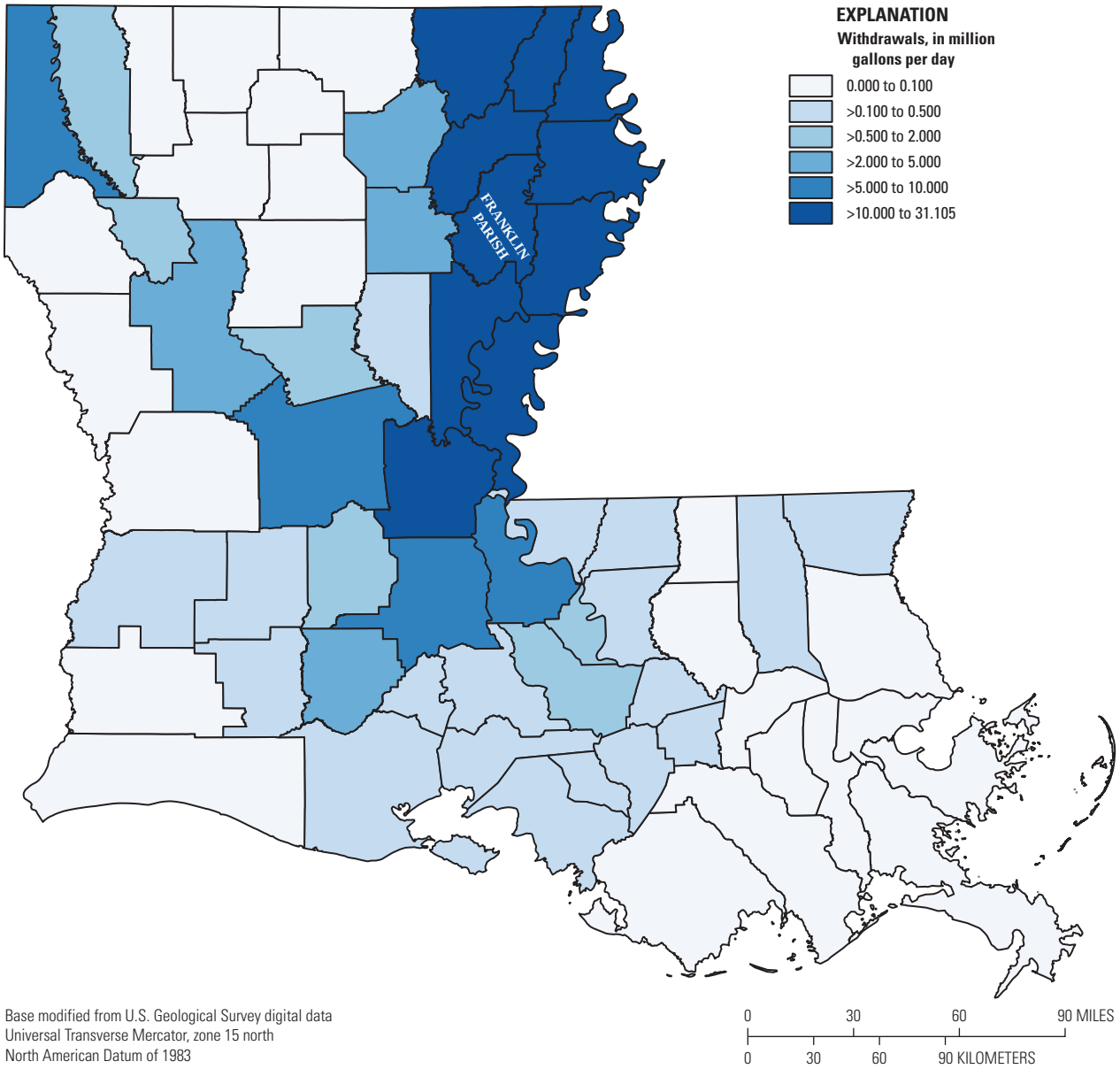

Figure 15. General-irrigation water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

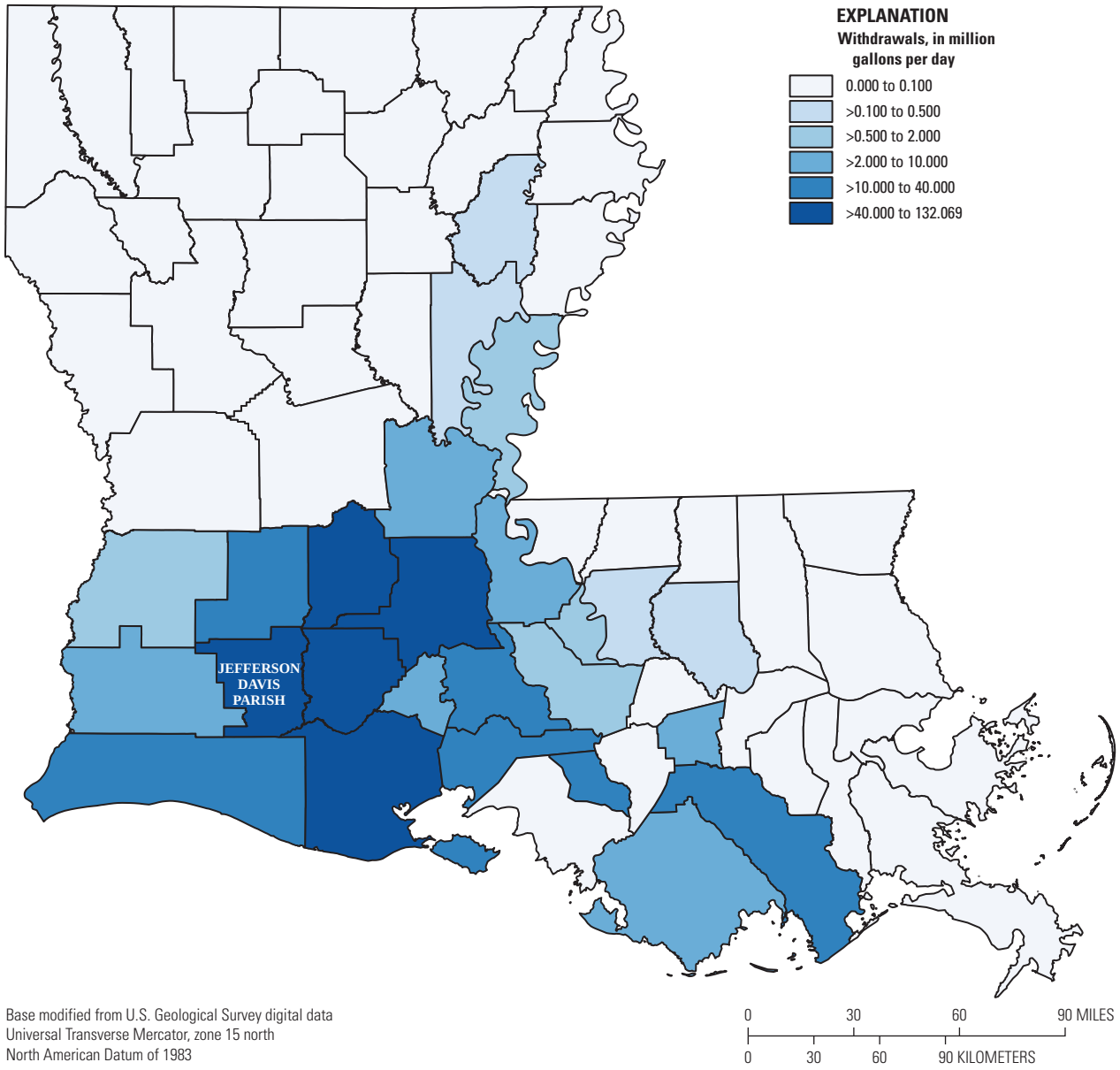

Figure 16. Aquaculture water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

Water Use by Parish, Aquifer, and Surface-Water Basin

Water Use by Parish

In 2020, St. Charles Parish had the greatest total withdrawals, at about 2,500 Mgal/d (figs. 17, 18). Acadia Parish had the greatest groundwater withdrawals in the State, with about 210 Mgal/d, of which over 94 percent was used for rice irrigation and aquaculture purposes (fig. 19; appendix 1). In addition to having the greatest total withdrawals, St. Charles Parish was also the parish with the greatest surface-water withdrawals in the State, at about 2,400 Mgal/d and accounting for more than 99 percent of total withdrawals in the parish in 2020 (fig. 20; appendix 1). More than 99 percent of withdrawals in St. Charles Parish were made for power-generation and industrial purposes.

Water withdrawals for each of the 64 parishes in Louisiana are summarized by use category and source in tables 4–6. Further summarization is available in appendix 1, which contains one-page summaries of water-use information by parish.

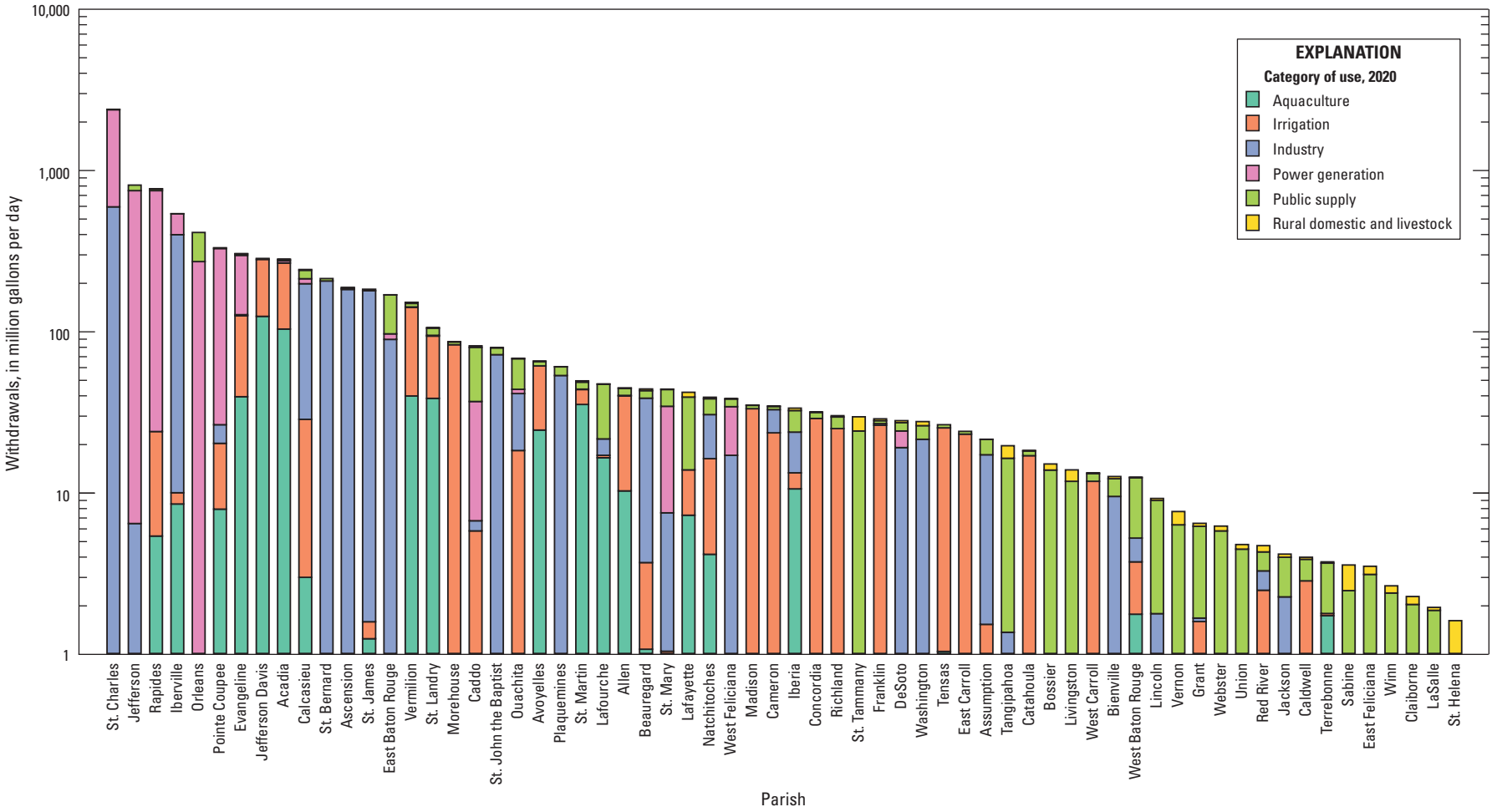

Figure 17. Water withdrawals in Louisiana by parish and category of use, 2020 (Robinson, 2025).

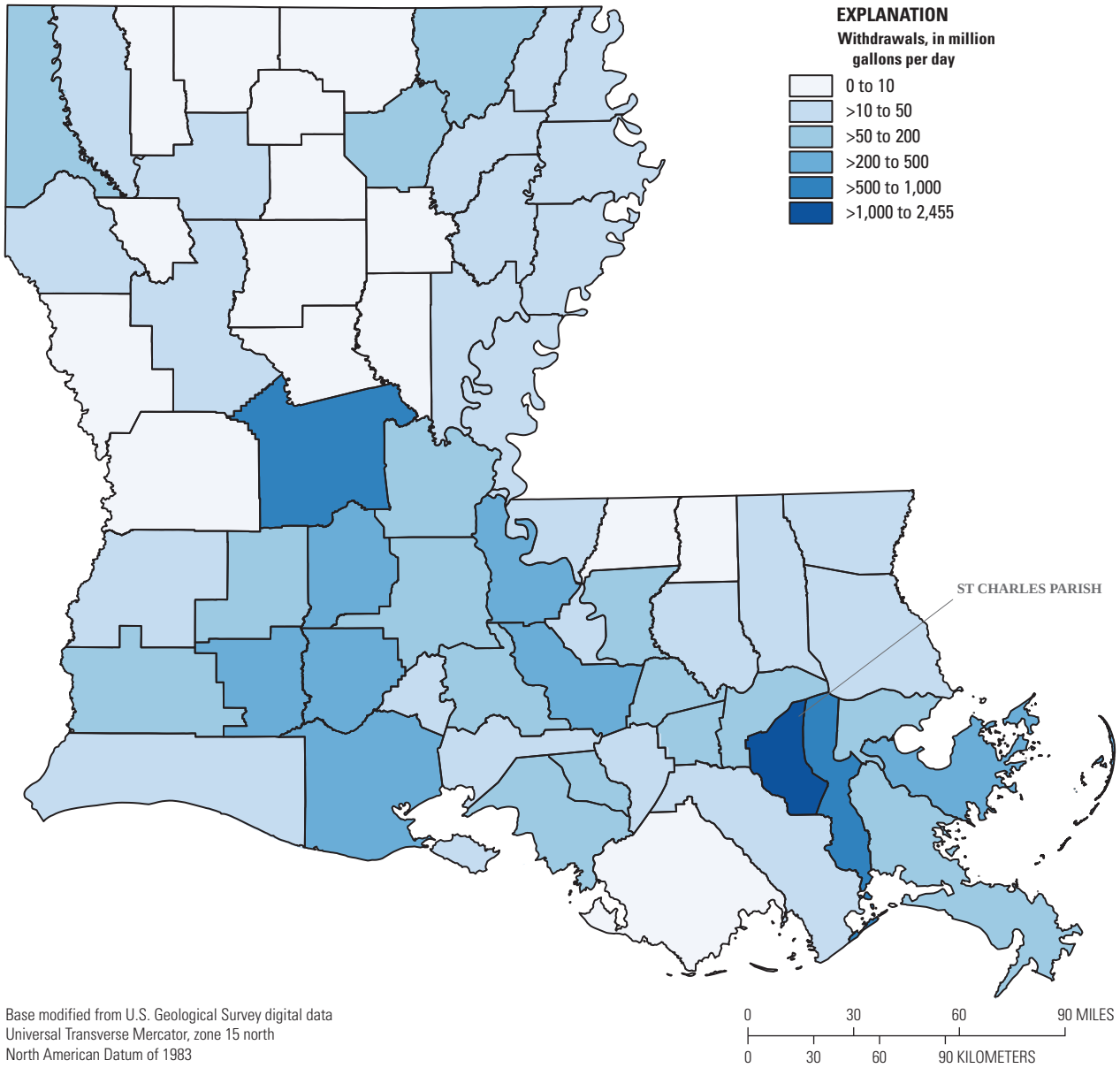

Figure 18. Summary of total water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

Water Use by Aquifer

In 2020, total groundwater withdrawals were approximately 1,900 Mgal/d, of which more than 99.9 percent was withdrawn from 13 major aquifers or aquifer systems, which include, from youngest to oldest, the Red River alluvial aquifer, Mississippi River alluvial aquifer, upland terrace aquifer (northern Louisiana), Chicot aquifer system, Chicot equivalent aquifer system (southeastern Louisiana), Evangeline aquifer, Evangeline equivalent aquifer system (southeastern Louisiana), Jasper aquifer system, Jasper equivalent aquifer system (southeastern Louisiana), Catahoula aquifer, Cockfield aquifer, Sparta aquifer, and Carrizo-Wilcox aquifer (figs. 2, 3). The Chicot aquifer system supplied the most groundwater, about 960 Mgal/d, which represented 51 percent of all groundwater withdrawals. The Mississippi River alluvial aquifer supplied the second most groundwater, about 450 Mgal/d, which represented 24 percent of all groundwater withdrawals (fig. 21).

Groundwater withdrawals are summarized by aquifer or aquifer system and parish in tables 7–8. Each aquifer summary includes a table of withdrawals by category of use, a list of withdrawals by parish, a location map, and a bar chart showing annual withdrawals at 5-year intervals for the period 1980–2020.

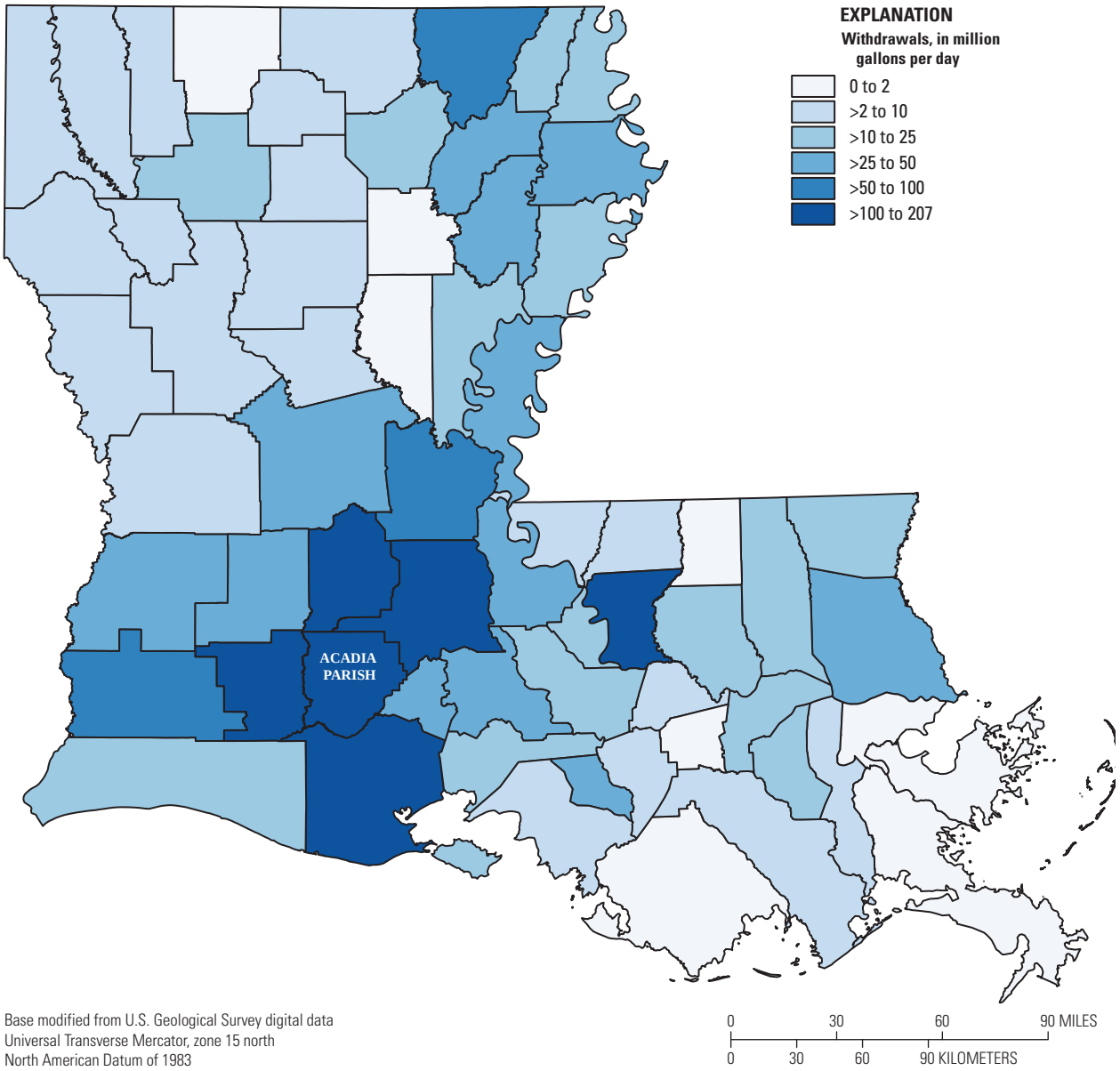

Figure 19. Groundwater withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

Water Use by Surface-Water Basin

In 2020, total surface-water withdrawals were approximately 6,800 Mgal/d, of which more than 99.9 percent was withdrawn from the 10 major surface-water basins defined in this report (originally defined by Garrison and Covay, 1994). These basins include the Atchafalaya-Teche-Vermilion, Calcasieu-Mermentau River, Lake Pontchartrain-Lake Maurepas, Mississippi River main stem, Mississippi River Delta, Ouachita River, Pearl River, Red River, Sabine River, and Tensas River surface-water basins (fig. 4). The Mississippi River main stem supplied the most water, about 4,900 Mgal/d, which represented about 72 percent of all surface-water withdrawals in 2020 (fig. 22).

Surface-water withdrawals are summarized by basin and parish in table 9. Further summarization is available in appendix 3, which contains one-page summaries of surface-water withdrawals for each of the 10 surface-water basins listed above. Each summary includes tables of withdrawals by category of use, parish, and by major waterbodies within the basin, in addition to a location map.

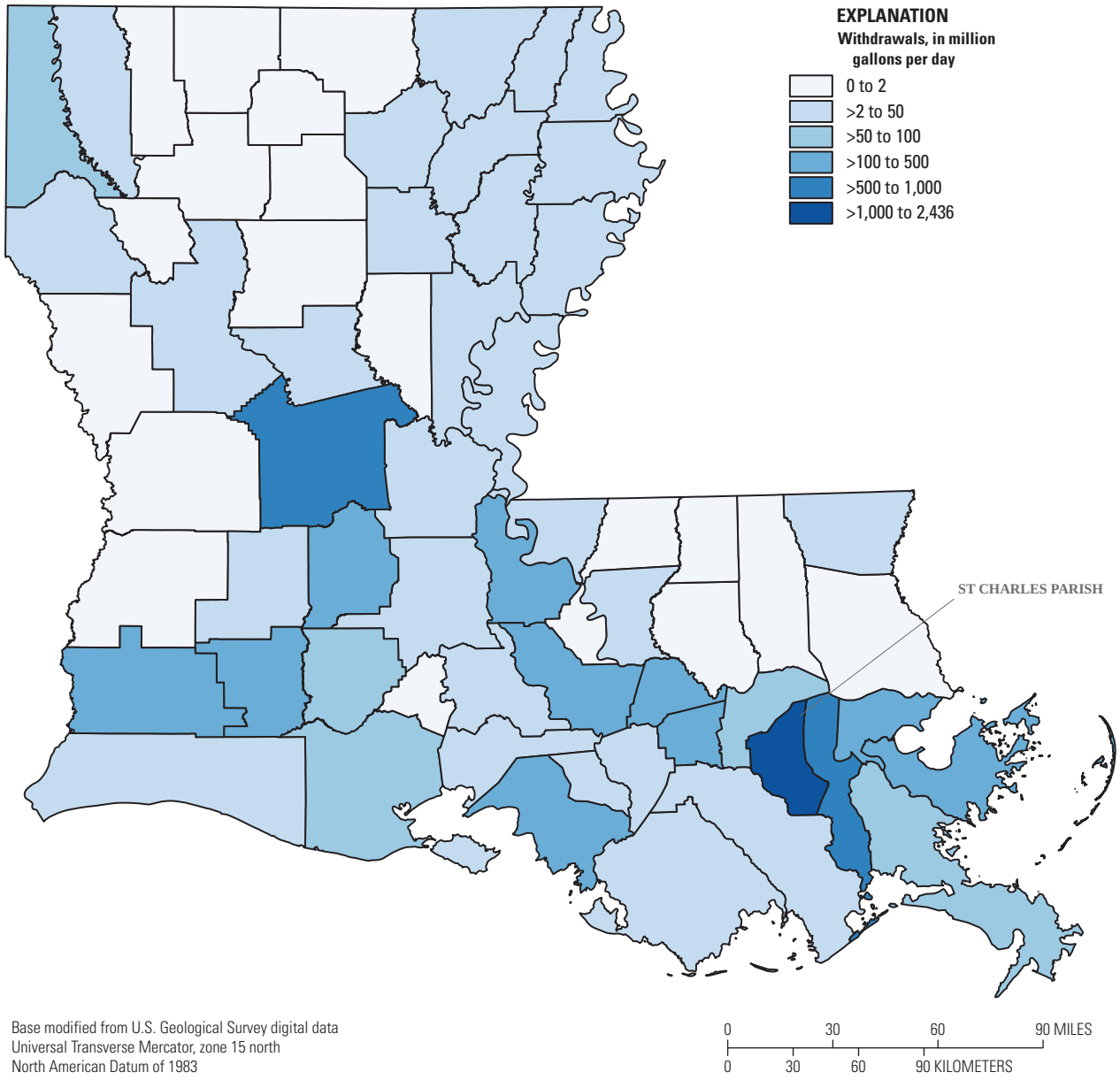

Figure 20. Surface-water withdrawals in Louisiana by parish, 2020 (Robinson, 2025).

Table 4. Public-supply, industrial, power-generation, and rural-domestic water withdrawals in Louisiana by parish and source, 2020 (Robinson, 2025).

[Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. Withdrawals that were less than 0.005 Mgal/d, but greater than 0, are shown as 0.00. GW, groundwater; SW, surface water; --, no withdrawals]

Parish	Public supply		Industrial		Power generation		Rural domestic
	GW	SW	GW	SW	GW	SW	GW
Acadia	5.58	--	1.12	--	2.26	2.43	1.17
Allen	4.13	--	0.18	--	--	--	0.23
Ascension	2.69	1.29	1.12	182.92	--	--	2.70
Assumption	--	4.53	6.36	2.88	--	--	0.03
Avoyelles	3.98	--	--	--	--	--	0.18
Beauregard	4.54	--	33.19	--	--	--	0.81
Bienville	2.69	--	9.49	0.08	--	--	0.31
Bossier	2.29	15.45	0.04	--	--	--	1.11
Caddo	1.39	39.85	0.00	0.10	--	22.97	1.47
Calcasieu	26.97	--	35.46	95.12	7.34	3.91	1.98
Caldwell	0.91	--	--	--	--	--	0.06
Cameron	1.48	--	0.28	--	--	--	0.10
Catahoula	1.17	--	--	--	--	--	0.09
Claiborne	1.74	--	--	--	--	--	0.15
Concordia	2.70	0.67	--	--	--	3.12	0.06
DeSoto	1.20	2.29	0.78	16.68	--	2.18	0.60
East Baton Rouge	68.96	--	41.17	17.14	7.92	--	0.24
East Carroll	0.82	--	--	--	--	--	0.01
East Feliciana	2.67	--	0.03	--	--	--	0.27
Evangeline	5.62	--	1.97	--	6.41	179.56	0.33
Franklin	1.14	--	0.36	--	--	--	0.62
Grant	3.26	2.18	0.06	--	--	--	0.22
Iberia	7.32	--	3.86	3.46	--	--	1.04
Iberville	2.09	0.75	21.38	442.03	--	--	0.15
Jackson	1.68	--	2.83	--	--	--	0.14
Jefferson	--	64.75	0.05	7.15	4.80	809.94	0.03
Jefferson Davis	4.17	--	--	--	--	--	0.39
Lafayette	25.12	--	0.01	--	--	--	2.66
Lafourche	--	27.19	0.41	3.78	--	--	0.02
LaSalle	1.86	--	--	0.00	--	--	0.06
Lincoln	6.20	--	0.62	--	--	--	0.19
Livingston	13.62	--	0.01	--	--	--	2.01
Madison	1.80	--	--	--	--	--	0.02
Morehouse	2.96	--	--	--	--	--	0.16
Natchitoches	0.90	5.94	--	18.57	--	--	0.49
Orleans	--	145.78	0.89	--	--	--	0.21
Ouachita	9.74	14.28	8.43	10.91	--	2.38	0.38
Plaquemines	--	6.13	--	55.68	--	--	0.05
Pointe Coupee	4.32	--	6.51	--	1.10	212.17	0.23
Rapides	17.83	--	0.00	--	0.57	782.60	0.45

Table 4. Public-supply, industrial, power-generation, and rural-domestic water withdrawals in Louisiana by parish and source, 2020 (Robinson, 2025).—Continued

[Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. Withdrawals that were less than 0.005 Mgal/d, but greater than 0, are shown as 0.00. GW, groundwater; SW, surface water; --, no withdrawals]

Parish	Public supply		Industrial		Power generation		Rural domestic
	GW	SW	GW	SW	GW	SW	GW
Red River	0.75	0.36	--	0.42	--	--	0.18
Richland	5.05	--	--	--	--	--	0.46
Sabine	1.21	1.58	--	0.06	--	--	0.93
St. Bernard	--	8.07	--	218.53	--	--	0.01
St. Charles	--	8.33	18.68	553.31	--	1,874.42	0.02
St. Helena	0.88	--	0.03	--	--	--	0.52
St. James	--	4.07	--	172.47	--	--	0.01
St. John the Baptist	9.66	3.03	2.83	56.39	--	--	0.08
St. Landry	11.31	--	2.48	--	--	--	0.64
St. Martin	4.88	--	0.14	--	--	--	0.73
St. Mary	0.42	6.54	3.41	2.01	0.09	107.85	0.14
St. Tammany	21.16	--	0.06	0.08	--	--	5.30
Tangipahoa	15.51	--	0.88	--	--	--	2.87
Tensas	0.13	0.54	--	--	--	--	0.02
Terrebonne	--	2.13	--	--	--	--	0.01
Union	4.47	--	0.09	--	--	--	0.19
Vermilion	6.41	--	1.13	0.05	--	--	1.99
Vernon	5.96	--	0.26	--	--	--	1.34
Washington	5.53	--	13.29	3.97	--	--	1.34
Webster	5.08	--	0.39	--	--	--	0.37
West Baton Rouge	6.92	--	1.57	--	--	--	0.04
West Carroll	1.27	--	--	--	--	--	0.06
West Feliciana	3.46	--	0.75	15.35	0.01	19.14	0.04
Winn	2.13	--	0.52	--	--	--	0.19
Total	**357.75**	**365.71**	**223.13**	**1,879.15**	**30.51**	**4,022.66**	**38.87**

Table 5. Livestock, rice-irrigation, general-irrigation, and aquaculture water withdrawals in Louisiana by parish and source, 2020 (Robinson, 2025).

[Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. Withdrawals that were less than 0.005 Mgal/d, but greater than 0, are shown as 0.00. GW, groundwater; SW, surface water; --, no withdrawals]

Parish	Livestock		Rice irrigation		General irrigation		Aquaculture	
	GW	SW	GW	SW	GW	SW	GW	SW
Acadia	0.09	0.01	120.50	51.10	1.07	1.07	75.66	13.35
Allen	0.08	0.02	23.69	7.90	0.18	--	20.77	5.19
Ascension	0.10	0.02	--	--	0.21	--	--	--
Assumption	--	0.01	--	--	0.09	0.14	--	--
Avoyelles	0.27	--	30.43	1.60	10.17	2.54	7.08	2.36
Beauregard	0.16	0.11	1.15	--	0.39	0.04	1.09	--
Bienville	0.02	0.02	--	--	--	--	--	--
Bossier	0.16	0.04	--	--	0.26	1.03	--	--
Caddo	0.07	0.17	--	--	5.01	1.25	--	--
Calcasieu	0.15	0.22	12.47	4.16	0.01	--	6.28	3.38
Caldwell	0.03	0.03	0.23	0.55	--	2.10	--	--
Cameron	0.03	0.08	9.95	14.93	--	0.05	3.91	15.65
Catahoula	0.01	0.02	8.37	--	6.89	6.89	0.21	--
Claiborne	0.04	0.04	--	--	0.00	--	--	--
Concordia	0.04	0.01	13.20	7.11	15.77	1.75	1.05	0.06
DeSoto	0.13	0.04	--	--	0.01	0.08	--	--
East Baton Rouge	0.08	0.01	--	--	0.31	--	0.21	--
East Carroll	0.00	0.00	3.22	0.36	14.20	3.55	--	--
East Feliciana	0.02	0.16	--	--	0.28	0.09	--	--
Evangeline	0.15	0.05	85.77	9.53	1.43	0.16	45.90	8.10
Franklin	0.17	--	2.24	8.94	27.99	3.11	0.13	--
Grant	0.02	0.03	--	--	--	0.88	--	--
Iberia	0.06	0.01	0.17	1.24	0.26	--	10.88	2.72
Iberville	0.06	0.02	--	--	0.81	0.54	0.12	0.50
Jackson	0.00	0.02	--	--	--	--	--	--
Jefferson	--	0.00	--	--	0.02	0.01	--	--
Jefferson Davis	0.12	--	114.04	48.88	0.23	0.15	52.83	79.24
Lafayette	0.10	--	2.28	0.57	0.11	0.20	5.80	0.64
Lafourche	0.09	0.09	--	--	--	0.10	2.74	10.94
LaSalle	0.01	0.02	--	--	--	0.24	--	--
Lincoln	0.01	0.07	--	--	0.00	0.00	--	--
Livingston	0.07	0.05	--	--	0.01	--	0.25	--
Madison	0.01	0.01	16.88	4.22	22.33	2.48	--	--
Morehouse	0.10	0.02	59.37	39.58	21.86	2.43	--	--
Natchitoches	0.05	0.21	0.04	0.68	0.84	3.35	--	--
Orleans	0.00	0.01	--	--	0.05	0.04	--	--
Ouachita	--	0.06	3.62	6.72	0.43	3.88	0.01	0.05
Plaquemines	--	0.02	--	--	--	0.00	--	--
Pointe Coupee	0.12	0.08	4.40	--	7.14	--	4.15	1.04
Rapides	0.03	0.14	3.45	19.57	3.31	3.10	--	--

Table 5. Livestock, rice-irrigation, general-irrigation, and aquaculture water withdrawals in Louisiana by parish and source, 2020 (Robinson, 2025).—Continued

[Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. Withdrawals that were less than 0.005 Mgal/d, but greater than 0, are shown as 0.00. GW, groundwater; SW, surface water; --, no withdrawals]

Parish	Livestock		Rice irrigation		General irrigation		Aquaculture	
	GW	SW	GW	SW	GW	SW	GW	SW
Red River	0.05	0.08	--	--	1.45	0.36	--	--
Richland	0.05	0.05	12.07	--	10.84	10.84	--	--
Sabine	0.00	0.01	--	--	--	0.00	--	--
St. Bernard	0.01	--	--	--	--	--	--	--
St. Charles	0.00	0.02	--	--	0.02	0.03	--	--
St. Helena	0.14	0.02	--	--	--	--	--	--
St. James	0.00	0.00	--	--	--	0.28	--	4.15
St. John the Baptist	--	0.00	--	--	--	0.04	--	--
St. Landry	0.15	0.04	45.38	8.01	8.00	2.00	46.54	11.64
St. Martin	0.02	0.01	0.64	7.36	0.08	0.32	33.84	3.76
St. Mary	--	0.01	--	--	0.03	0.28	--	--
St. Tammany	0.07	0.05	--	--	0.01	0.00	0.07	--
Tangipahoa	0.14	0.14	--	--	0.22	--	--	--
Tensas	0.00	0.01	3.63	1.21	19.31	2.15	0.02	--
Terrebonne	0.01	0.03	--	--	0.02	--	0.44	1.75
Union	0.04	0.17	--	--	--	--	--	--
Vermilion	0.07	0.29	43.93	65.90	0.07	0.30	88.56	15.60
Vernon	0.01	0.08	--	--	--	0.00	0.04	--
Washington	0.11	0.11	--	--	0.39	0.10	--	--
Webster	0.01	0.10	--	--	--	0.00	0.00	--
West Baton Rouge	0.02	0.01	0.73	0.73	0.40	0.21	0.71	0.18
West Carroll	0.10	0.03	1.36	0.45	10.38	1.83	--	--
West Feliciana	0.00	0.09	--	--	--	0.25	--	--
Winn	0.01	0.04	--	--	0.05	0.04	--	--
Total	**3.70**	**3.31**	**623.23**	**311.29**	**192.95**	**60.29**	**409.30**	**180.31**

Table 6. Total water withdrawals in Louisiana by parish and source, 2020 (Robinson, 2025).

[Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding]

Parish	Groundwater	Surface Water	Total
Acadia	207.46	67.96	275.42
Allen	49.26	13.11	62.37
Ascension	6.83	184.23	191.06
Assumption	6.48	7.56	14.04
Avoyelles	52.12	6.51	58.62
Beauregard	41.33	0.15	41.47
Bienville	12.51	0.09	12.60
Bossier	3.86	16.52	20.38
Caddo	7.94	64.34	72.28
Calcasieu	90.65	106.79	197.44
Caldwell	1.23	2.68	3.91
Cameron	15.75	30.70	46.45
Catahoula	16.75	6.92	23.66
Claiborne	1.93	0.04	1.97
Concordia	32.82	12.71	45.53
DeSoto	2.72	21.27	23.98
East Baton Rouge	118.88	17.15	136.02
East Carroll	18.25	3.91	22.16
East Feliciana	3.27	0.25	3.52
Evangeline	147.59	197.40	344.99
Franklin	32.66	12.05	44.71
Grant	3.56	3.09	6.65
Iberia	23.60	7.43	31.03
Iberville	24.63	443.84	468.47
Jackson	4.65	0.02	4.67
Jefferson	4.90	881.85	886.75
Jefferson Davis	171.79	128.27	300.06
Lafayette	36.08	1.41	37.49
Lafourche	3.26	42.10	45.36
LaSalle	1.92	0.26	2.19
Lincoln	7.02	0.08	7.09
Livingston	15.97	0.05	16.02
Madison	41.04	6.71	47.75
Morehouse	84.45	42.04	126.49
Natchitoches	2.32	28.75	31.07
Orleans	1.15	145.82	146.97
Ouachita	22.61	38.27	60.89
Plaquemines	0.05	61.84	61.89
Pointe Coupee	27.96	213.29	241.25
Rapides	25.64	805.41	831.05
Red River	2.44	1.22	3.65
Richland	28.47	10.89	39.36

Table 6. Total water withdrawals in Louisiana by parish and source, 2020 (Robinson, 2025).—Continued

[Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding]

Parish	Groundwater	Surface Water	Total
Sabine	2.14	1.65	3.80
St. Bernard	0.02	226.60	226.62
St. Charles	18.72	2,436.12	2,454.84
St. Helena	1.57	0.02	1.58
St. James	0.02	180.97	180.99
St. John the Baptist	12.57	59.47	72.04
St. Landry	114.48	21.68	136.16
St. Martin	40.33	11.45	51.77
St. Mary	4.09	116.70	120.79
St. Tammany	26.68	0.13	26.81
Tangipahoa	19.62	0.14	19.76
Tensas	23.11	3.91	27.02
Terrebonne	0.47	3.91	4.38
Union	4.79	0.17	4.95
Vermilion	142.18	82.14	224.32
Vernon	7.60	0.08	7.69
Washington	20.66	4.18	24.83
Webster	5.86	0.10	5.96
West Baton Rouge	10.40	1.13	11.52
West Carroll	13.17	2.32	15.48
West Feliciana	4.27	34.83	39.10
Winn	2.91	0.09	2.99
Total	**1,879.44**	**6,822.72**	**8,702.16**

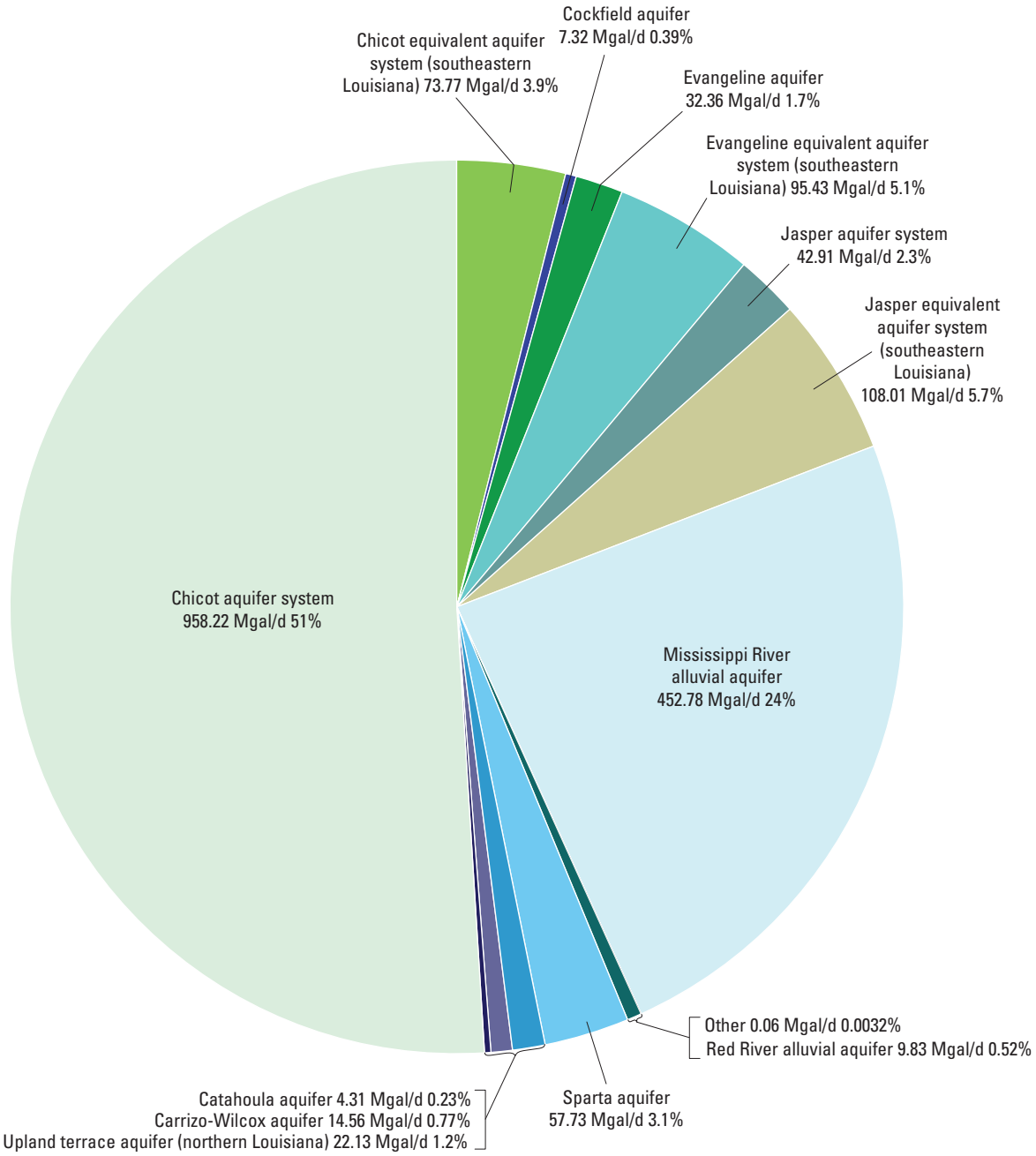

Figure 21. Groundwater withdrawals in Louisiana by major aquifer or aquifer system, 2020 (Robinson, 2025). Mgal/d, million gallons per day; %, percent

Table 7. Groundwater withdrawals from the Red River alluvial aquifer, Mississippi River alluvial aquifer, upland terrace aquifer, Chicot aquifer system, Chicot equivalent aquifer system, Evangeline aquifer, and the Evangeline equivalent aquifer system (Holocene-Pliocene aquifers), in Louisiana by parish, 2020 (Robinson, 2025).

[Aquifer ages shown in figure 2. Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. --, withdrawals less than 0.005 Mgal/d are not shown]

Parish	Red River alluvial aquifer	Mississippi River alluvial aquifer	Upland terrace aquifer (northern Louisiana)	Chicot aquifer system	Chicot equivalent aquifer system (southeastern Louisiana)	Evangeline aquifer	Evangeline equivalent aquifer system (southeastern Louisiana)
Acadia	--	--	--	207.46	--	--	--
Allen	--	--	--	45.02	--	4.24	--
Ascension	--	0.04	--	--	6.78	--	--
Assumption	--	5.05	--	--	1.43	--	--
Avoyelles	0.73	42.36	5.34	--	--	3.68	--
Beauregard	--	0.22	--	14.44	--	4.32	--
Bienville	--	--	0.00	--	--	--	--
Bossier	0.30	--	0.72	--	--	--	--
Caddo	2.99	--	0.35	--	--	--	--
Calcasieu	--	--	--	89.88	--	0.77	--
Caldwell	--	0.27	--	--	--	--	--
Cameron	--	--	--	15.75	--	--	--
Catahoula	1.98	13.55	--	--	--	--	--
Claiborne	--	--	--	--	--	--	--
Concordia	--	30.26	--	--	--	--	--
DeSoto	0.01	--	0.88	--	--	--	--
East Baton Rouge	--	0.05	--	--	9.74	--	50.55
East Carroll	--	17.42	--	--	--	--	--
East Feliciana	--	--	0.26	--	0.21	--	0.27
Evangeline	--	--	--	135.46	--	12.13	--
Franklin	--	32.66	--	--	--	--	--
Grant	0.01	--	2.01	--	--	--	--
Iberia	--	5.74	--	17.85	--	--	--
Iberville	--	19.26	--	--	4.75	--	--
Jackson	--	--	--	--	--	--	--
Jefferson	--	--	--	0.00	4.90	--	--
Jefferson Davis	--	--	--	171.79	--	--	--
Lafayette	--	0.53	--	35.55	--	--	--
Lafourche	--	2.33	--	--	0.93	--	--
LaSalle	--	--	1.30	--	--	--	--
Lincoln	--	--	--	--	--	--	--
Livingston	--	--	--	--	2.72	--	5.35
Madison	--	41.04	--	--	--	--	--
Morehouse	--	81.35	2.62	--	--	--	--
Natchitoches	0.83	--	0.14	--	--	--	--
Orleans	--	--	--	--	1.15	--	--
Ouachita	--	2.74	0.03	--	--	--	--

Table 7. Groundwater withdrawals from the Red River alluvial aquifer, Mississippi River alluvial aquifer, upland terrace aquifer, Chicot aquifer system, Chicot equivalent aquifer system, Evangeline aquifer, and the Evangeline equivalent aquifer system (Holocene-Pliocene aquifers), in Louisiana by parish, 2020 (Robinson, 2025).—Continued

[Aquifer ages shown in figure 2. Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. --, withdrawals less than 0.005 Mgal/d are not shown]

Parish	Red River alluvial aquifer	Mississippi River alluvial aquifer	Upland terrace aquifer (northern Louisiana)	Chicot aquifer system	Chicot equivalent aquifer system (southeastern Louisiana)	Evangeline aquifer	Evangeline equivalent aquifer system (southeastern Louisiana)
Plaquemines	--	0.00	--	--	0.04	--	--
Pointe Coupee	--	18.99	--	--	2.50	--	2.67
Rapides	1.79	--	6.91	1.48	--	2.81	--
Red River	1.19	--	0.10	--	--	--	--
Richland	--	25.97	--	--	--	--	--
Sabine	--	--	--	--	--	--	--
St. Bernard	--	--	--	--	0.02	--	--
St. Charles	--	--	--	--	18.72	--	--
St. Helena	--	--	0.14	--	0.83	--	--
St. James	--	0.00	--	--	0.02	--	--
St. John the Baptist	--	--	--	--	2.91	--	9.66
St. Landry	--	39.67	--	70.73	--	4.08	--
St. Martin	--	34.25	--	6.07	--	--	--
St. Mary	--	0.05	--	4.04	--	--	--
St. Tammany	--	--	0.08	--	6.40	--	16.12
Tangipahoa	--	--	0.41	--	3.96	--	3.34
Tensas	--	23.11	--	--	--	--	--
Terrebonne	--	0.47	--	--	--	--	--
Union	--	--	0.01	--	--	--	--
Vermilion	--	--	--	142.18	--	--	--
Vernon	--	--	0.06	0.51	--	0.32	--
Washington	--	--	0.44	--	5.74	--	0.09
Webster	--	--	0.27	--	--	--	--
West Baton Rouge	--	3.04	--	--	0.01	--	7.35
West Carroll	--	12.32	--	--	--	--	--
West Feliciana	--	--	0.00	--	0.02	--	0.03
Winn	--	--	0.05	--	--	--	--
Totals	**9.83**	**452.78**	**22.13**	**958.22**	**73.77**	**32.36**	**95.43**

Table 8. Groundwater withdrawals from the Jasper aquifer system, Jasper equivalent aquifer system, Catahoula aquifer, Cockfield aquifer, Sparta aquifer, and the Carrizo-Wilcox aquifer (Miocene-Paleocene aquifers), and other ungrouped aquifers in Louisiana by parish, 2020 (Robinson, 2025).

[Aquifer ages shown in figure 2. Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. --, withdrawals less than 0.005 Mgal/d are not shown]

Parish	Jasper aquifer system	Jasper equivalent aquifer system (southeastern Louisiana)	Catahoula aquifer	Cockfield aquifer	Sparta aquifer	Carrizo-Wilcox aquifer	Other
Acadia	--	--	--	--	--	--	--
Allen	--	--	--	--	--	--	--
Ascension	--	--	--	--	--	--	0.00
Assumption	--	--	--	--	--	--	--
Avoyelles	--	--	--	--	--	--	--
Beauregard	22.35	--	--	--	--	--	--
Bienville	--	--	--	--	11.77	0.74	--
Bossier	--	--	--	--	0.17	2.67	--
Caddo	--	--	--	--	--	4.60	--
Calcasieu	--	--	--	--	--	--	--
Caldwell	--	--	--	0.95	0.02	--	--
Cameron	--	--	--	--	--	--	--
Catahoula	0.06	--	1.15	--	--	--	--
Claiborne	--	--	--	0.02	1.91	--	--
Concordia	1.38	--	1.18	--	--	--	--
DeSoto	--	--	--	--	--	1.81	0.01
East Baton Rouge	--	58.54	--	--	--	--	--
East Carroll	--	--	--	0.83	--	--	--
East Feliciana	--	1.98	0.55	--	--	--	--
Evangeline	--	--	--	--	--	--	--
Franklin	--	--	--	--	--	--	--
Grant	0.43	--	0.77	0.34	--	--	--
Iberia	--	--	--	--	--	--	--
Iberville	--	0.61	--	--	--	--	--
Jackson	--	--	--	0.08	4.57	--	--
Jefferson	--	--	--	--	--	--	--
Jefferson Davis	--	--	--	--	--	--	--
Lafayette	--	--	--	--	--	--	--
Lafourche	--	--	--	--	--	--	--
LaSalle	--	--	0.15	0.48	--	--	--
Lincoln	--	--	--	0.04	6.98	--	--
Livingston	--	7.90	--	--	--	--	--
Madison	--	--	--	--	--	--	--
Morehouse	--	--	--	0.41	0.08	--	--
Natchitoches	--	--	--	0.04	0.56	0.75	--
Orleans	--	--	--	--	--	--	0.00
Ouachita	--	--	--	0.33	19.51	--	--
Plaquemines	--	--	--	--	--	--	0.00

Table 8. Groundwater withdrawals from the Jasper aquifer system, Jasper equivalent aquifer system, Catahoula aquifer, Cockfield aquifer, Sparta aquifer, and the Carrizo-Wilcox aquifer (Miocene-Paleocene aquifers), and other ungrouped aquifers in Louisiana by parish, 2020 (Robinson, 2025).—Continued

[Aquifer ages shown in figure 2. Withdrawals are in million gallons per day (Mgal/d). Summation of numbers in columns may differ slightly from totals because of rounding. --, withdrawals less than 0.005 Mgal/d are not shown]

Parish	Jasper aquifer system	Jasper equivalent aquifer system (southeastern Louisiana)	Catahoula aquifer	Cockfield aquifer	Sparta aquifer	Carrizo-Wilcox aquifer	Other
Pointe Coupee	--	3.80	--	--	--	--	--
Rapides	12.37	--	0.29	--	--	--	--
Red River	--	--	--	--	--	1.10	0.05
Richland	--	--	--	2.50	--	--	--
Sabine	--	--	--	0.09	0.15	1.91	--
St. Bernard	--	--	--	--	--	--	--
St. Charles	--	--	--	--	--	--	0.00
St. Helena	--	0.59	--	--	--	--	--
St. James	--	--	--	--	--	--	0.00
St. John the Baptist	--	--	--	--	--	--	--
St. Landry	--	--	--	--	--	--	--
St. Martin	--	--	--	--	--	--	--
St. Mary	--	--	--	--	--	--	--
St. Tammany	--	4.08	--	--	--	--	--
Tangipahoa	--	11.90	--	--	--	--	--
Tensas	--	--	--	--	--	--	--
Terrebonne	--	--	--	--	--	--	--
Union	--	--	--	0.06	4.72	--	--
Vermilion	--	--	--	--	--	--	--
Vernon	6.31	--	0.23	0.17	--	--	--
Washington	--	14.39	--	--	--	--	--
Webster	--	--	--	--	4.62	0.97	--
West Baton Rouge	--	--	--	--	--	--	--
West Carroll	--	--	--	0.84	--	--	--
West Feliciana	--	4.22	--	--	--	--	--
Winn	--	--	--	0.17	2.69	--	--
Totals	**42.91**	**108.01**	**4.31**	**7.32**	**57.73**	**14.56**	**0.06**

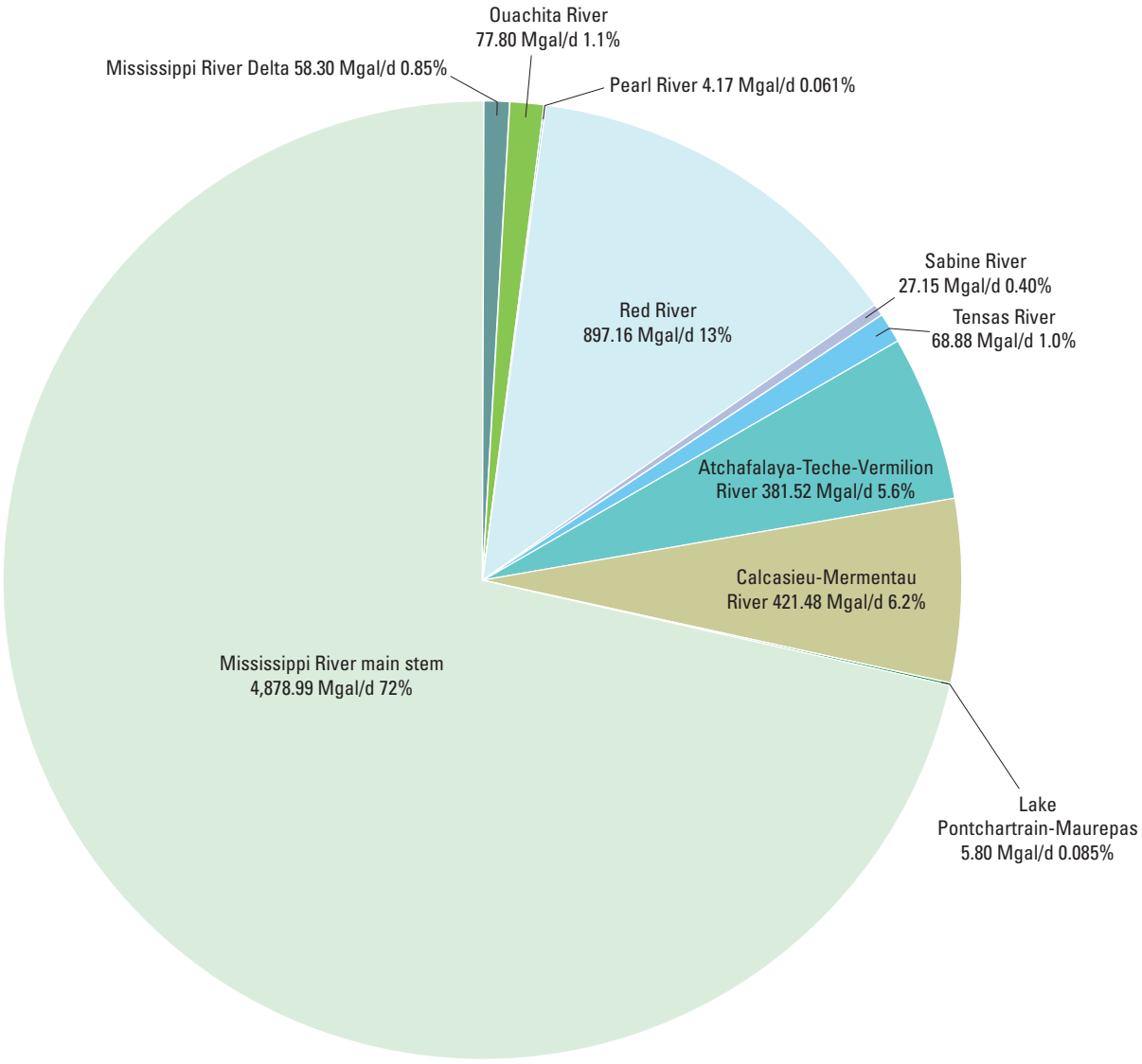

Figure 22. Surface-water withdrawals in Louisiana by major surface-water basin, 2020 (Robinson, 2025). Mgal/d, million gallons per day; %, percent

Table 9. Surface-water withdrawals in Louisiana by parish and major surface-water basin, 2020 (Robinson, 2025).

[Withdrawals are in million gallons per day. Summation of numbers in columns may differ slightly from totals because of rounding. --, no data]

Parish	Atchafalaya-Teche-Vermilion	Calcasieu-Mermentau River	Lake Pontchartrain-Lake Maurepas	Mississippi River main stem	Mississippi River Delta	Ouachita River	Pearl River	Red River	Sabine Basin	Tensas River
Acadia	--	67.96	--	--	--	--	--	--	--	--
Allen	--	13.11	--	--	--	--	--	--	--	--
Ascension	--	--	0.02	182.92	1.29	--	--	--	--	--
Assumption	--	--	--	--	7.56	--	--	--	--	--
Avoyelles	3.76	--	--	--	--	2.74	--	--	--	--
Beauregard	--	0.12	--	--	--	--	--	--	0.03	--
Bienville	--	--	--	--	--	0.00	--	0.09	--	--
Bossier	--	--	--	--	--	--	--	16.52	--	--
Caddo	--	--	--	--	--	--	--	64.34	--	--
Calcasieu	--	105.93	--	--	--	--	--	--	0.86	--
Caldwell	--	--	--	--	--	1.87	--	--	--	0.81
Cameron	--	27.34	--	--	--	--	--	--	3.36	--
Catahoula	--	--	--	--	--	6.43	--	--	--	0.48
Claiborne	--	--	--	--	--	0.03	--	0.01	--	--
Concordia	--	--	--	4.95	--	7.76	--	--	--	--
DeSoto	--	--	--	--	--	--	--	0.07	21.20	--
East Baton Rouge	--	--	0.01	17.14	--	--	--	--	--	--
East Carroll	--	--	--	0.90	--	--	--	--	--	3.01
East Feliciana	--	--	0.25	--	--	--	--	--	--	--
Evangeline	185.30	12.10	--	--	--	--	--	--	--	--
Franklin	--	--	--	--	--	--	--	--	--	12.05
Grant	--	--	--	--	--	2.61	--	0.48	--	--
Iberia	7.43	--	--	--	--	--	--	--	--	--
Iberville	2.02	--	0.09	440.20	0.06	--	--	--	--	--
Jackson	--	--	--	--	--	0.02	--	--	--	--
Jefferson	--	--	0.00	881.84	0.01	--	--	--	--	--
Jefferson Davis	--	128.27	--	--	--	--	--	--	--	--
Lafayette	1.19	0.22	--	--	--	--	--	--	--	--
Lafourche	--	--	--	--	42.10	--	--	--	--	--
LaSalle	--	--	--	--	--	0.26	--	--	--	--

Table 9. Surface-water withdrawals in Louisiana by parish and major surface-water basin, 2020 (Robinson, 2025).—Continued

[Withdrawals are in million gallons per day. Summation of numbers in columns may differ slightly from totals because of rounding. --, no data]

Parish	Atchafalaya-Teche-Vermilion	Calcasieu-Mermentau River	Lake Pontchartrain-Lake Maurepas	Mississippi River main stem	Mississippi River Delta	Ouachita River	Pearl River	Red River	Sabine Basin	Tensas River
Lincoln	--	--	--	--	--	0.08	--	--	--	--
Livingston	--	--	0.05	--	--	--	--	--	--	--
Madison	--	--	--	--	--	--	--	--	--	6.71
Morehouse	--	--	--	--	--	16.05	--	--	--	25.99
Natchitoches	--	--	--	--	--	--	--	28.75	--	--
Orleans	--	--	0.00	145.78	0.04	--	--	--	--	--
Ouachita	--	--	--	--	--	35.08	--	--	--	3.19
Plaquemines	--	--	--	61.82	0.01	--	--	--	--	--
Pointe Coupee	1.01	--	--	212.28	--	--	--	--	--	--
Rapides	11.13	4.09	--	--	--	4.63	--	785.56	--	--
Red River	--	--	--	--	--	--	--	1.22	--	--
Richland	--	--	--	--	--	--	--	--	--	10.89
Sabine	--	--	--	--	--	--	--	0.00	1.65	--
St. Bernard	--	--	--	226.60	--	--	--	--	--	--
St. Charles	--	--	0.00	2,436.06	0.05	--	--	--	--	--
St. Helena	--	--	0.02	--	--	--	--	--	--	--
St. James	--	--	4.76	173.90	2.31	--	--	--	--	--
St. John the Baptist	--	--	0.03	59.42	0.01	--	--	--	--	--
St. Landry	18.24	3.44	--	--	--	--	--	--	--	--
St. Martin	11.26	--	--	--	0.19	--	--	--	--	--
St. Mary	115.95	--	--	--	0.75	--	--	--	--	--
St. Tammany	--	--	0.12	--	--	--	0.01	--	--	--
Tangipahoa	--	--	0.14	--	--	--	--	--	--	--
Tensas	--	--	--	0.47	--	--	--	--	--	3.44
Terrebonne	--	--	--	--	3.91	--	--	--	--	--
Union	--	--	--	--	--	0.17	--	--	--	--
Vermilion	23.28	58.87	--	--	--	--	--	--	--	--
Vernon	--	0.05	--	--	--	--	--	--	0.03	--
Washington	--	--	0.02	--	--	--	4.16	--	--	--

Table 9. Surface-water withdrawals in Louisiana by parish and major surface-water basin, 2020 (Robinson, 2025).—Continued

[Withdrawals are in million gallons per day. Summation of numbers in columns may differ slightly from totals because of rounding. --, no data]

Parish	Atchafalaya-Teche-Vermilion	Calcasieu-Mermentau River	Lake Pontchartrain-Lake Maurepas	Mississippi River main stem	Mississippi River Delta	Ouachita River	Pearl River	Red River	Sabine Basin	Tensas River
Webster	--	--	--	--	--	--	--	0.10	--	--
West Baton Rouge	0.97	--	--	0.16	--	--	--	--	--	--
West Carroll	--	--	--	--	--	--	--	--	--	2.32
West Feliciana	--	--	0.30	34.54	--	--	--	--	--	--
Winn	--	--	--	--	--	0.06	--	0.02	--	--
Totals	**381.52**	**421.48**	**5.80**	**4,878.99**	**58.30**	**77.80**	**4.17**	**897.16**	**27.15**	**68.88**

Total Water Use

Total withdrawals from groundwater and surface-water sources in 2020 were approximately 8,700 Mgal/d (table 10). Of this total, about 1,900 Mgal/d was from groundwater and about 6,800 Mgal/d was from surface water. St. Charles Parish had the greatest total withdrawals, at about 2,500 Mgal/d (figs. 17, 18). Acadia Parish had the greatest groundwater withdrawals in the State, at about 210 Mgal/d (fig. 19). In addition to having the greatest total withdrawals, St. Charles was also the parish with the greatest surface-water withdrawals in the State, at about 2,400 Mgal/d (fig. 20). About 51 percent (960 Mgal/d) of all groundwater was withdrawn from the Chicot aquifer system, and about 24 percent (450 Mgal/d) was withdrawn from the Mississippi River alluvial aquifer (table 7). About 72 percent (or 4,900 Mgal/d) of all surface water withdrawn in Louisiana was withdrawn from the Mississippi River main stem (table 6).

Table 10. Total water withdrawals in Louisiana by category and source water, 2020 (Robinson, 2025).

[Withdrawals are in million gallons per day. Summation of numbers in columns may differ slightly from totals because of rounding --, no data]

Water-use category	Groundwater	Surface water	Total
Public supply	357.75	365.71	723.46
Industry	223.13	1,879.15	2,102.29
Power generation	30.51	4,022.66	4,053.17
Rural domestic	38.87	--	38.87
Livestock	3.70	3.31	7.01
Rice irrigation	623.23	311.29	934.52
General irrigation	192.95	60.29	253.24
Aquaculture	409.30	180.31	589.60
Total	**1,879.44**	**6,822.72**	**8,702.16**

Water Use Trends

Since 1960, Louisiana's population has increased by 43 percent, but from 2015 to 2020, the State's population decreased by 0.28 percent (fig. 23) (U.S. Census Bureau, 1961, 2016, 2020). Since 2015, Calcasieu, St. Tammany, East Baton Rouge, Ascension, and Jefferson Parishes had the largest increases in population and Caddo, Orleans, Acadia. Terrebonne, and Iberia Parishes had the largest decreases in population.

Total public-supply withdrawals increased by approximately 1.4 percent from 2015 to 2020 (fig. 24), comparable to the increase in population. The total groundwater withdrawals for public supply decreased by 0.23 percent and surface-water withdrawals increased by 3.0 percent. Public-supply withdrawals decreased in 33 of Louisiana's 64 parishes between 2015 and 2020. The median change in public-supply withdrawals by parish was a decrease of 0.01 Mgal/d; that is, the change for half of the parishes was greater than a 0.01 Mgal/d increase, and the change for the other half was less than the 0.01 Mgal/d increase. East Baton Rouge Parish had the greatest decrease, at 3.3 Mgal/d, and St. John the Baptist Parish had the greatest increase in total public-supply withdrawals, at 5.2 Mgal/d. Since 1960, public-supply withdrawals have increased by 170 percent.

Total industrial withdrawals decreased by 2.3 percent from 2015 to 2020 (fig. 25). Industrial withdrawals from groundwater sources decreased by 14 percent and industrial withdrawals from surface-water sources decreased by 0.76 percent. From 2015 to 2020, 30 of the 54 parishes (56 percent) that had water withdrawals for industrial purposes had a decrease in withdrawals and the median difference in withdrawals during this period was a decrease of 0.01 Mgal/d. Calcasieu Parish had the greatest decrease, at 40 Mgal/d, whereas Iberville Parish had the greatest increase, at 72 Mgal/d. Since 1960, total industrial withdrawals in Louisiana have decreased by 49 percent.

Groundwater withdrawals for power generation decreased by 18 percent from 2015 to 2020 and surface-water withdrawals decreased by 4.8 percent, resulting in an overall decrease of 4.9 percent for power-generation withdrawals from 2015 to 2020 (fig. 26). Between 2015 and 2020, 9 of the 16 parishes (56 percent) that had water withdrawals for power generation showed a decrease in withdrawals, and the median change in withdrawals for the parishes that generated power was a decrease of 0.31 Mgal/d. The parish with the greatest decrease in withdrawals was Orleans Parish, at 270 Mgal/d, and St. Charles Parish had the greatest increase, at 82 Mgal/d. The decrease in power-generation withdrawals from 2015 to 2020 is likely due to the decommission and deactivation of two powerplants in Iberville and Orleans Parishes. Total withdrawals for power generation in Louisiana have increased by 81 percent since power-generation withdrawals were first reported in the 1965 water-use report (fig. 26).

Rural-domestic withdrawals in Louisiana decreased by 1.2 percent from 2015 to 2020 (fig. 27). Thirty-nine of the 64 parishes (61 percent) had a decrease in rural-domestic

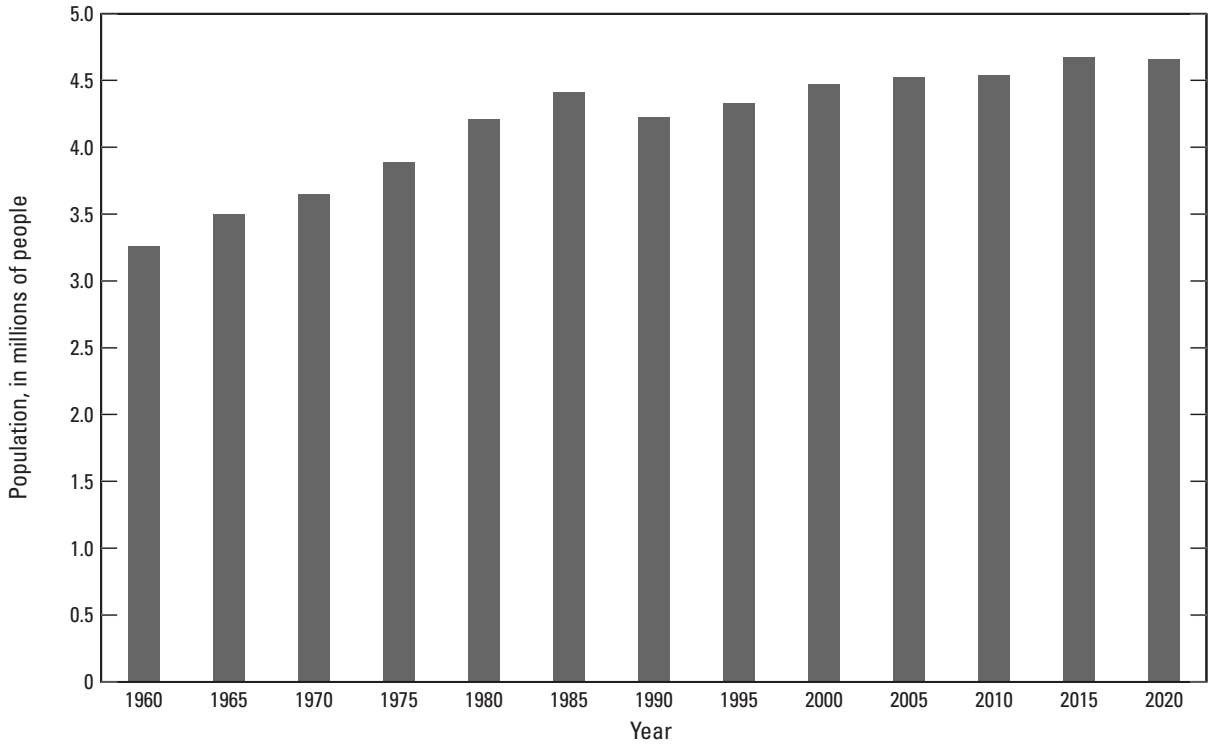

Figure 23. Total population in Louisiana, 1960–2020 (Forstall, 1996; U.S. Census Bureau, 2020).

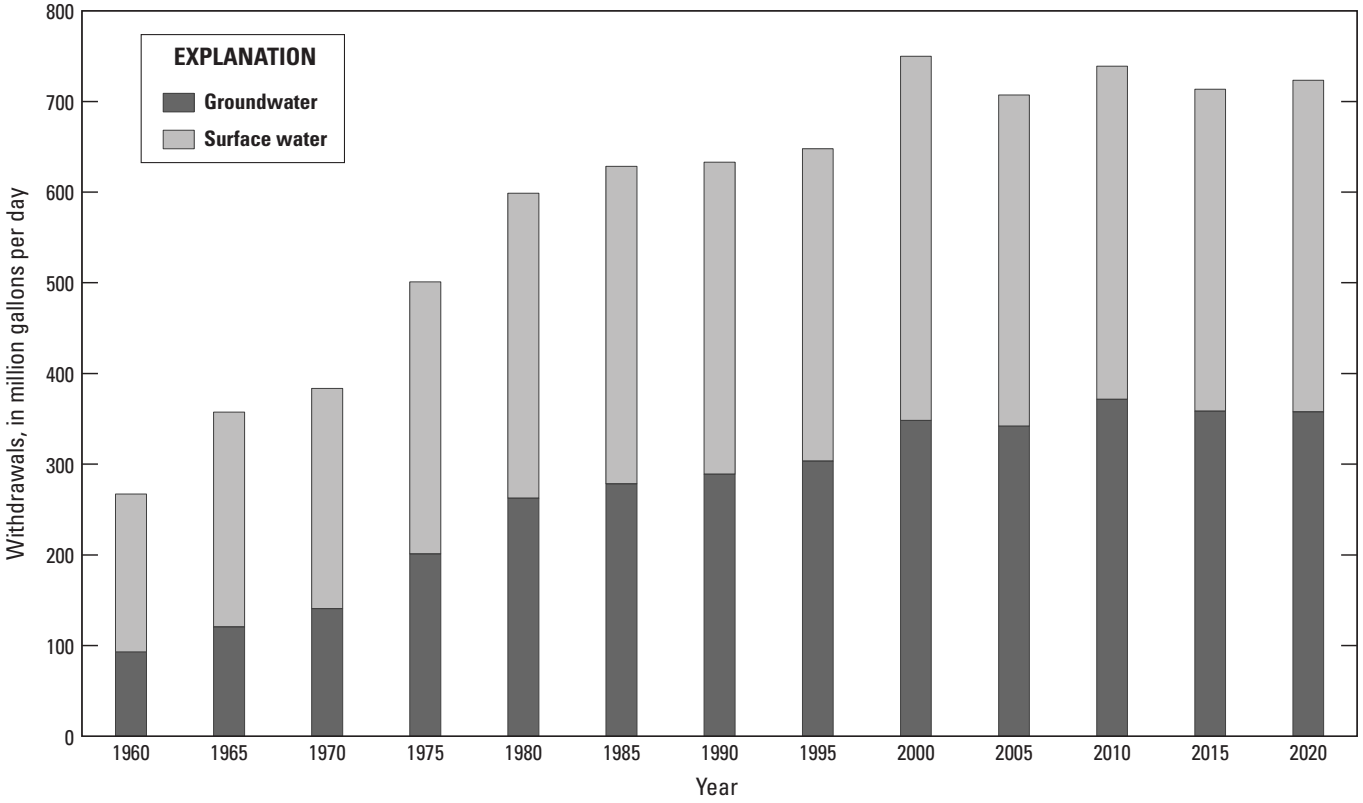

Figure 24. Public-supply water withdrawals in Louisiana, 1960–2020 (Robinson, 2025).

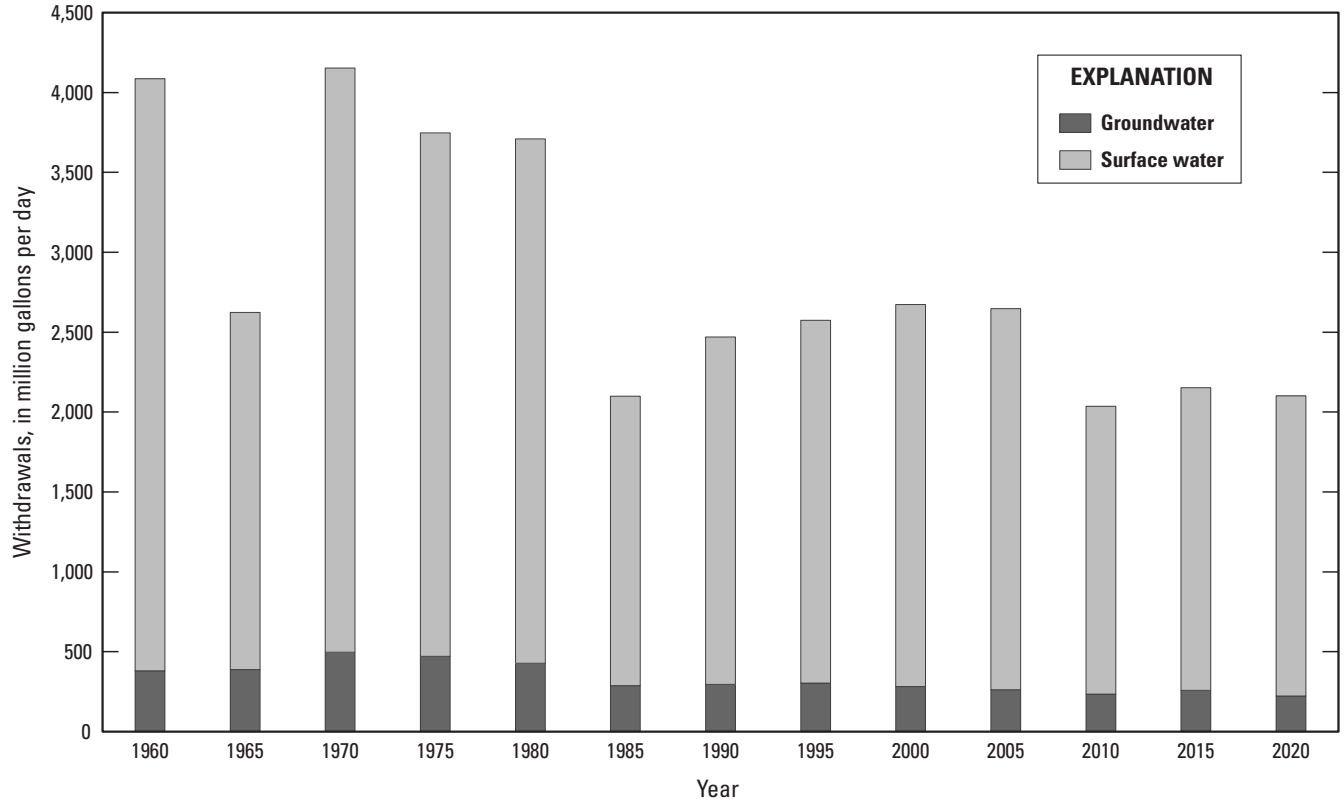

Figure 25. Industrial water withdrawals in Louisiana, 1960–2020 (Robinson, 2025).

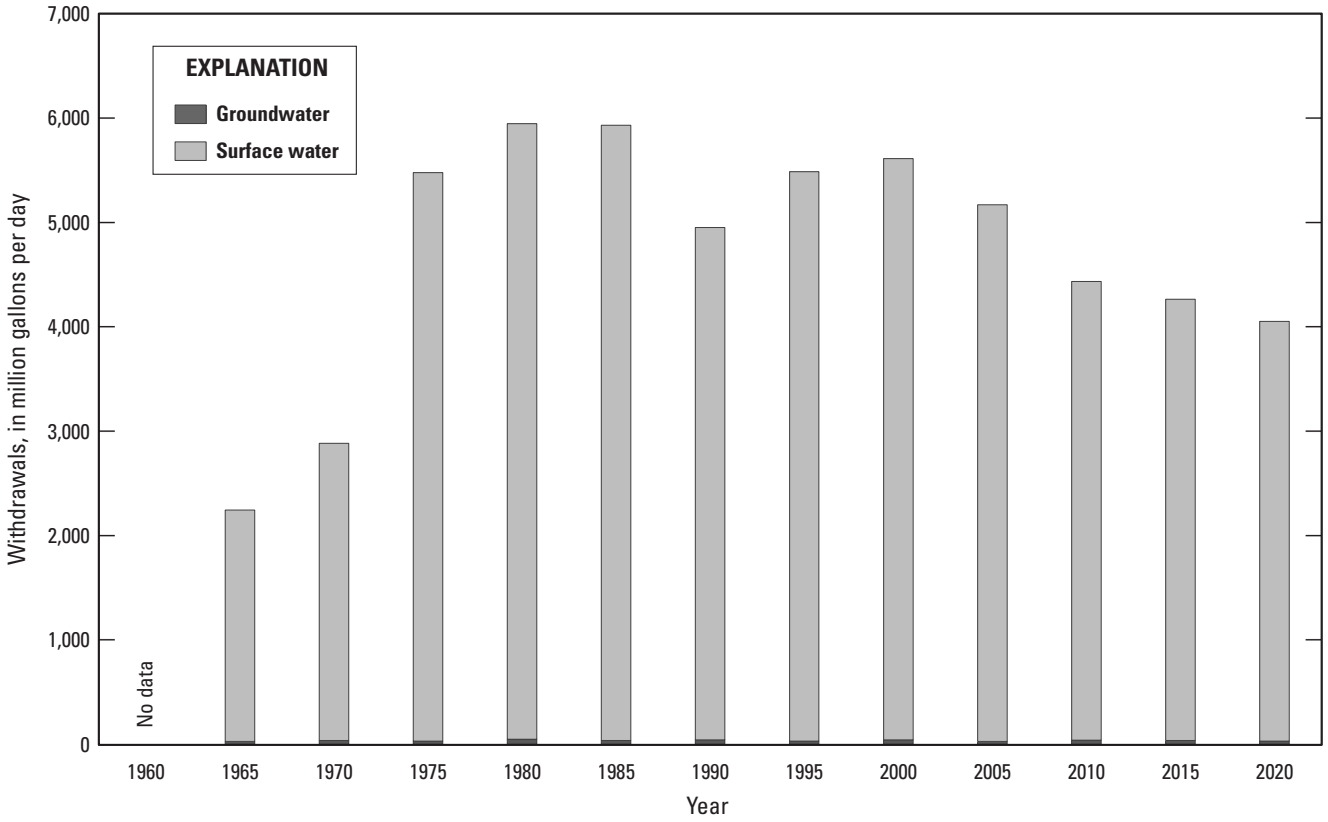

Figure 26. Power-generation water withdrawals in Louisiana, 1965–2020 (Robinson, 2025).

water use from 2015 to 2020, and the median change in water withdrawals for rural-domestic use was a decrease of less than 0.01 Mgal/d. Vermilion Parish had the greatest decrease, at 0.20 Mgal/d, and Vernon Parish had the greatest increase, at 0.095 Mgal/d. The small decrease in total rural-domestic withdrawals from 2015 to 2020 is consistent with, and may be due in part to, the continued expansion of public suppliers into rural areas and a subsequent shift from the use of private domestic wells to public supplies. Since 1960, groundwater withdrawals for rural-domestic use have decreased by 4.4 percent (fig. 27).

Groundwater withdrawals for livestock increased by 16 percent, surface-water withdrawals increased by 5.2 percent, and total withdrawals for livestock increased by 11 percent from 2015 to 2020 (fig. 28). Despite the increase in total withdrawals for livestock, 34 of 64 parishes (53 percent) that had water withdrawals for livestock had a decrease from 2015 to 2020 and the median change was a decrease of 0.01 Mgal/d. Sabine Parish had the greatest decrease, at 0.081 Mgal/d, and Beauregard Parish had the greatest increase, at 0.12 Mgal/d. Withdrawals for livestock in Louisiana have decreased by 73 percent since 1960 (fig. 28).

From 2015 to 2020, total withdrawals for rice irrigation increased by 13 percent, congruent with a 13-percent increase in rice-harvest acreage (Louisiana Cooperative Extension Service, 2017, 2023). Groundwater withdrawals for rice irrigation increased by 13 percent, and for the same period, surface-water withdrawals for rice irrigation increased by 12 percent (fig. 29). From 2015 to 2020, water withdrawals increased in 18 of the 30 parishes (60 percent) that had water withdrawals for rice irrigation, and the median change in withdrawals for these parishes was an increase of 1.9 Mgal/d. Morehouse Parish had the greatest increase, at 36 Mgal/d, and Calcasieu Parish had the greatest decrease, at 8.3 Mgal/d. Total withdrawals for rice irrigation in Louisiana have decreased by 3.4 percent from 1960 to 2020 (fig. 29).

Total withdrawals for general irrigation increased by 12 percent from 2015 to 2020. During the same period, groundwater withdrawals for general irrigation increased by 14 percent, and surface-water withdrawals increased by 7.5 percent (fig. 30). From 2015 to 2020, water withdrawals decreased in 35 of the 62 parishes in Louisiana (56 percent) that had general-irrigation withdrawals, and the median change in general-irrigation water use was a decrease of less than 0.01 Mgal/d. Pointe Coupee Parish had the greatest decrease, at 2.4 Mgal/d, and Franklin Parish had the greatest increase, at 11 Mgal/d. General-irrigation withdrawals in Louisiana have increased by 820 percent since 1960 (fig. 30).

From 2015 to 2020, total withdrawals for aquaculture in Louisiana increased by 20 percent (fig. 31). During the same period, groundwater withdrawals increased by 21 percent, and surface-water withdrawals increased by 16 percent. From

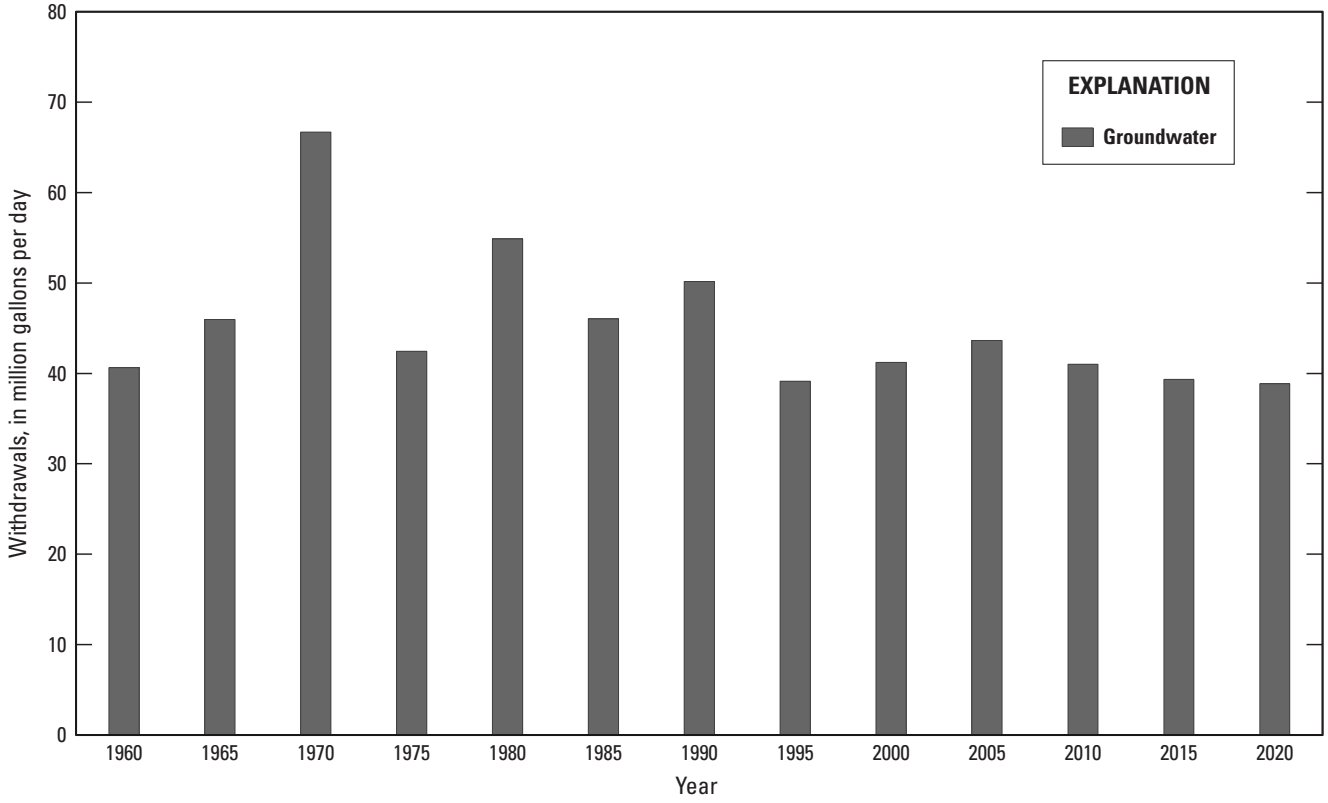

Figure 27. Rural-domestic water withdrawals in Louisiana, 1960–2020 (Robinson, 2025).

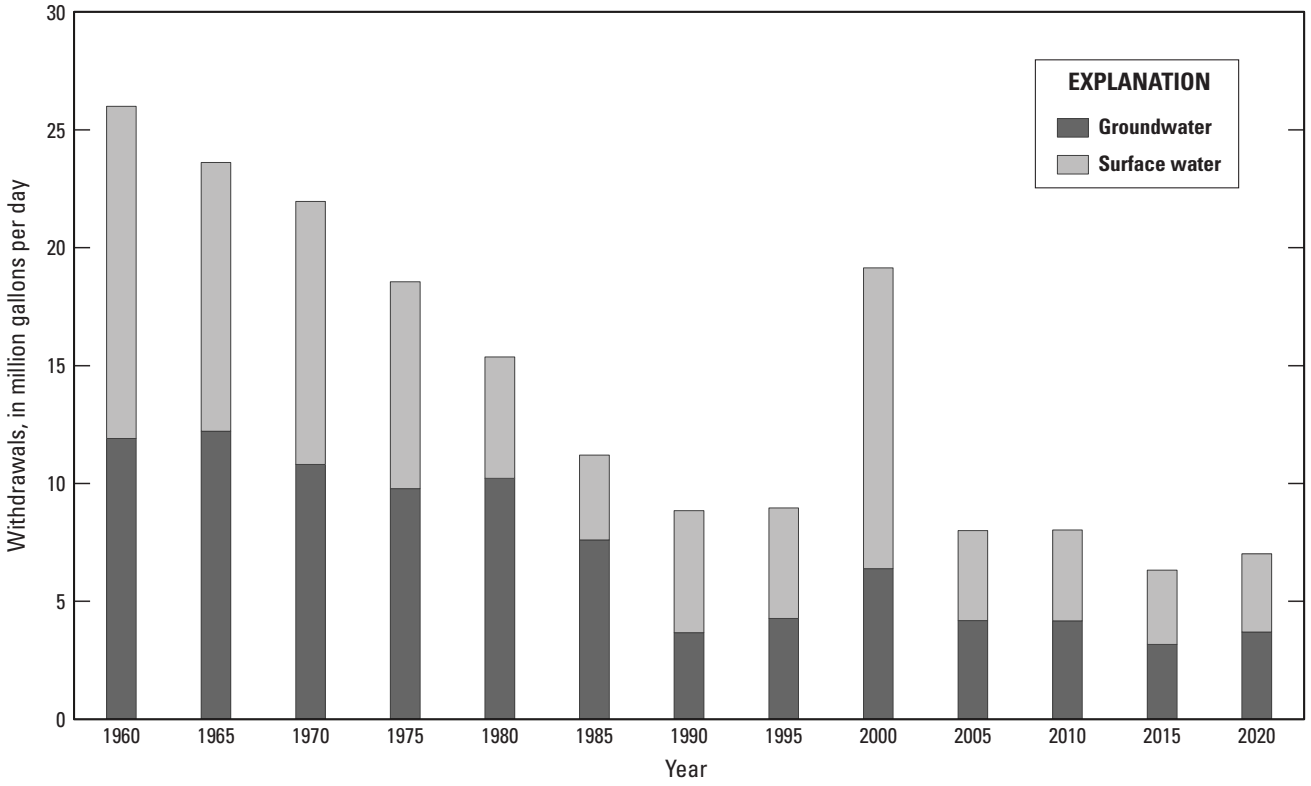

Figure 28. Livestock water withdrawals in Louisiana, 1960–2020 (Robinson, 2025).

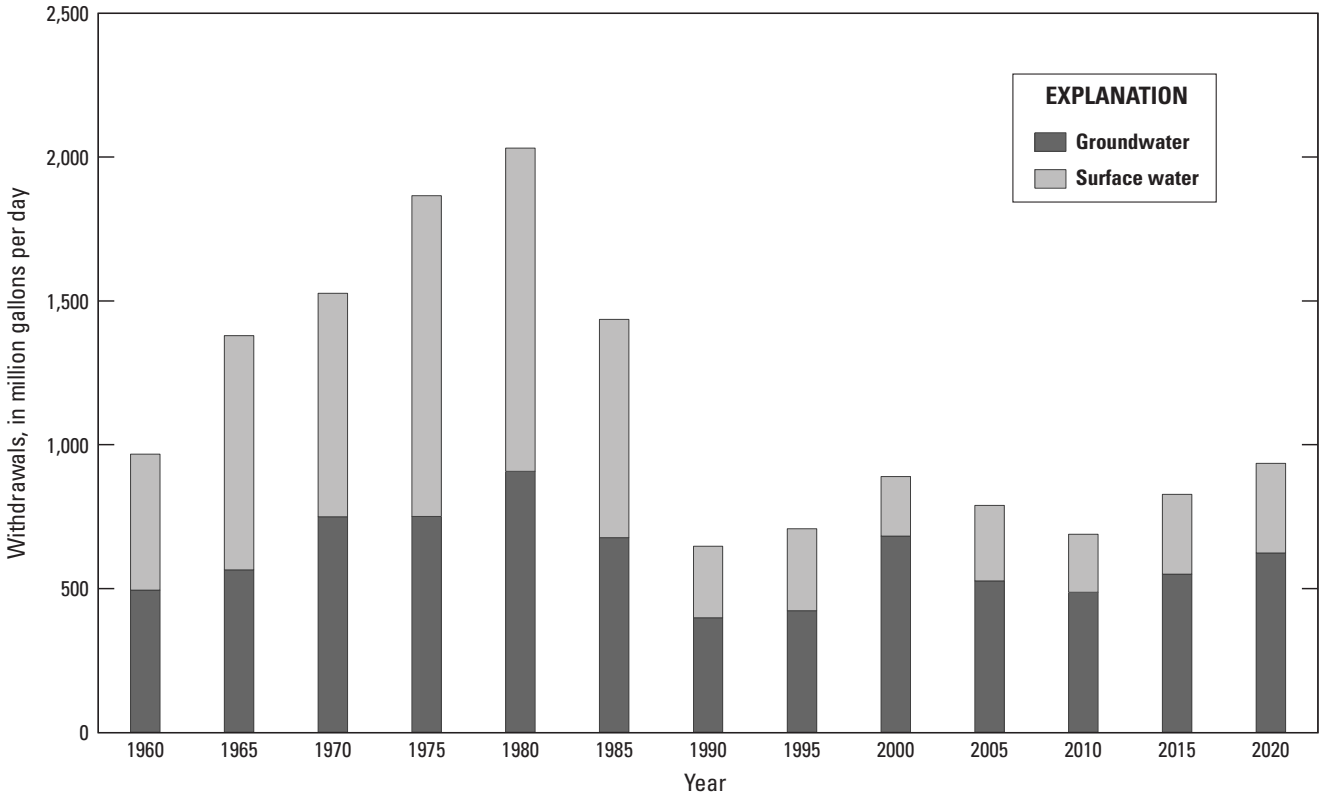

Figure 29. Rice-irrigation water withdrawals in Louisiana, 1960–2020 (Robinson, 2025).

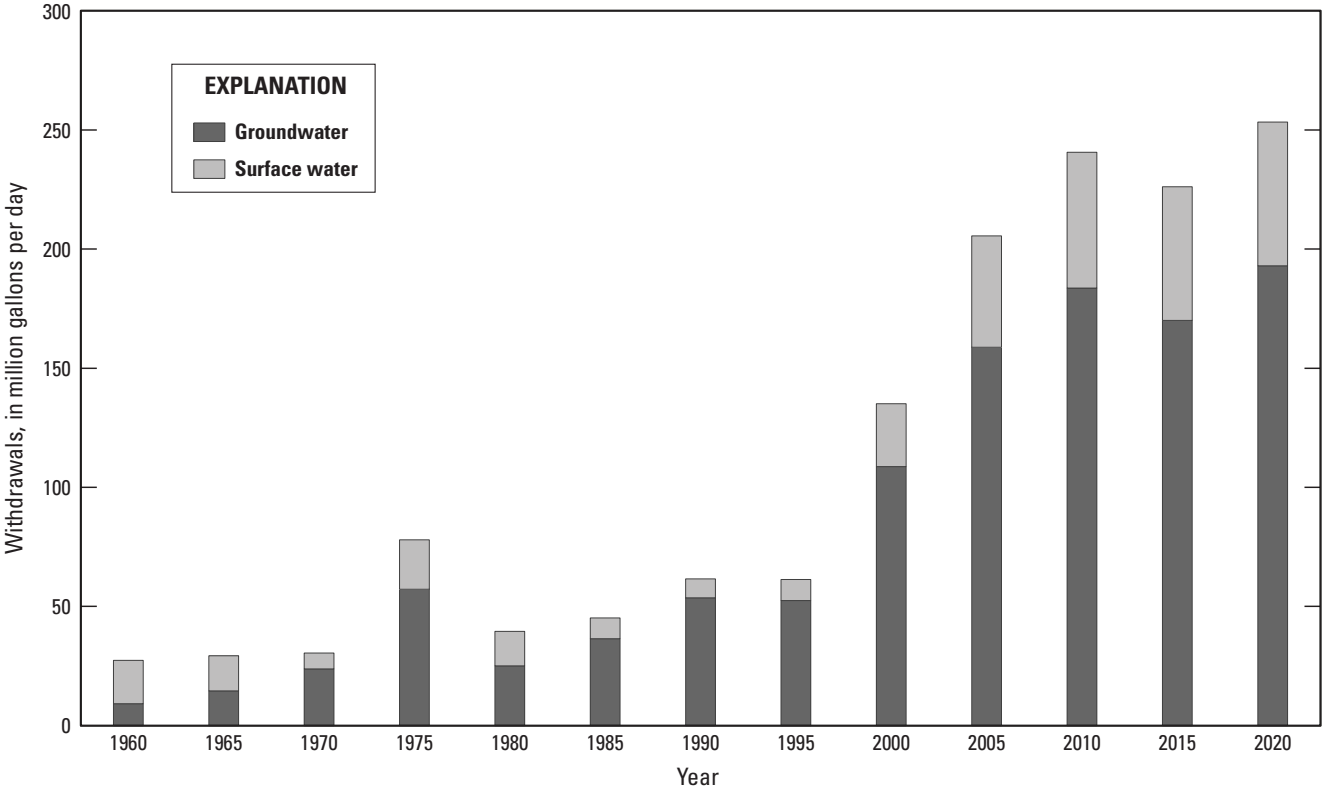

Figure 30. General-irrigation water withdrawals in Louisiana, 1960–2020 (Robinson, 2025).

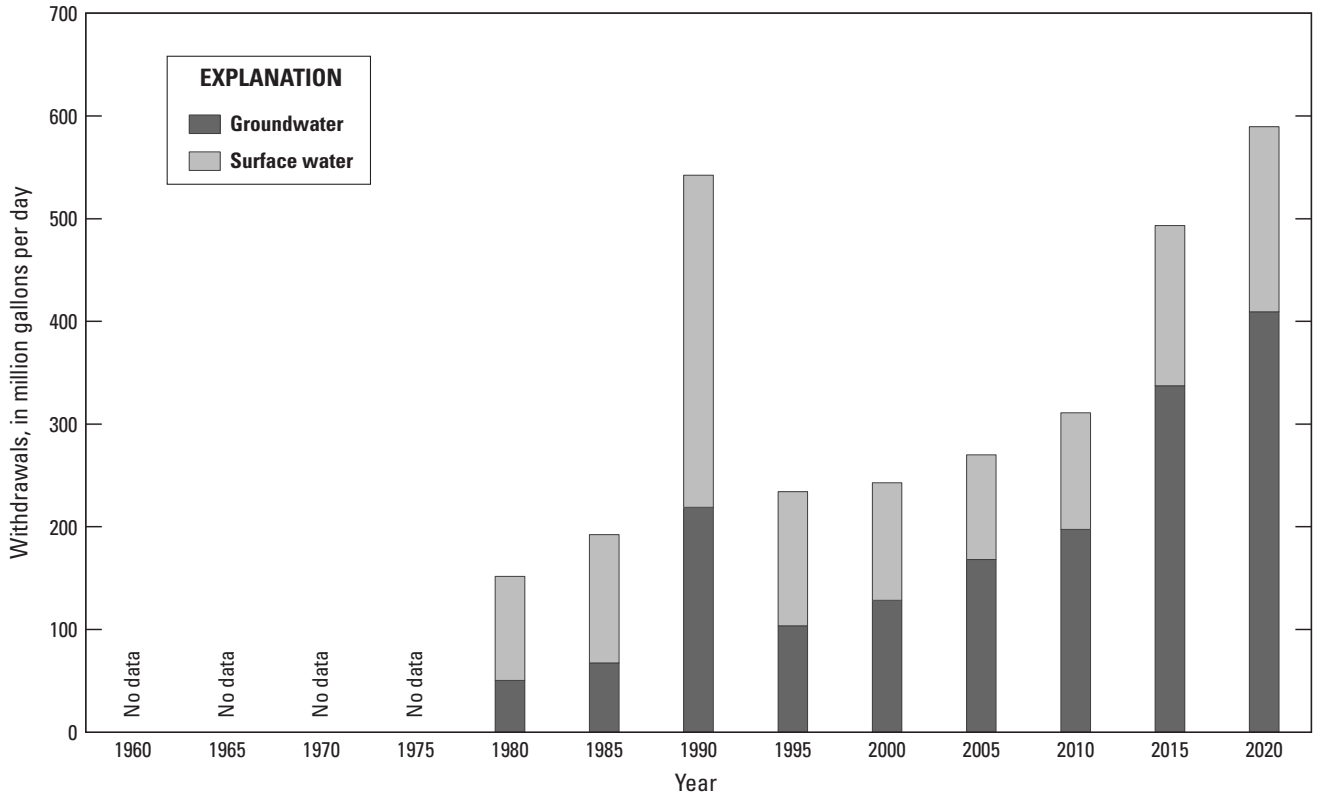

Figure 31. Aquaculture water withdrawals in Louisiana, 1980–2020 (Robinson, 2025).

2015 to 2020, withdrawals decreased in 21 of the 36 parishes (58 percent) that had aquaculture withdrawals, and the median change in aquaculture withdrawals for these parishes was a decrease of 0.01 Mgal/d. Vermilion Parish had the greatest increase, at 64 Mgal/d, and Acadia Parish had the greatest decrease, at 15 Mgal/d. Total withdrawals for aquaculture in Louisiana have increased by 290 percent since aquaculture withdrawals were first reported in the 1980 water-use report (fig. 31).

Total groundwater withdrawals for all water-use categories increased by 130 Mgal/d (7.1 percent) from 2015 to 2020 (fig. 32). Since 2015, withdrawals from the Chicot aquifer system increased by 13 percent, and withdrawals from the Mississippi River alluvial aquifer increased by 18 percent. Total surface-water withdrawals decreased by 2.1 percent from 2015 to 2020 (fig. 33). The Mississippi River main stem had the greatest withdrawals of any surface-water basin in 2020, at 4,900 Mgal/d, or 72 percent of all surface water, and it had a decrease of just 1.1 percent from 2015.

Figure 34 shows increases and decreases in total water withdrawals in Louisiana since 1960. Withdrawals of both groundwater and surface water increased steadily from 1960 to 1980. For that period, total groundwater withdrawals increased by approximately 73 percent (from 1,000 to 1,800 Mgal/d), total surface-water withdrawals increased by 150 percent (from 4,400 to 11,000 Mgal/d), and total water withdrawals in Louisiana increased by approximately 130 percent (from 5,400 to 13,000 Mgal/d). From 1980 to 2020, total groundwater withdrawals increased by 5.3 percent (about 94 Mgal/d), total surface-water withdrawals decreased by 37 percent (about 3,900 Mgal/d), and total water withdrawals decreased by 31 percent (about 3,800 Mgal/d). As indicated in figure 34, from 2015 to 2020, total water withdrawals in Louisiana decreased by 0.22 percent.

Overall, since 1960, groundwater withdrawals have increased by 83 percent, surface-water withdrawals have increased by 56 percent, and total water withdrawals have increased by 61 percent. Figure 35 summarizes withdrawals from 1960 to 2020, showing total withdrawals along with total withdrawals by category for the same period.

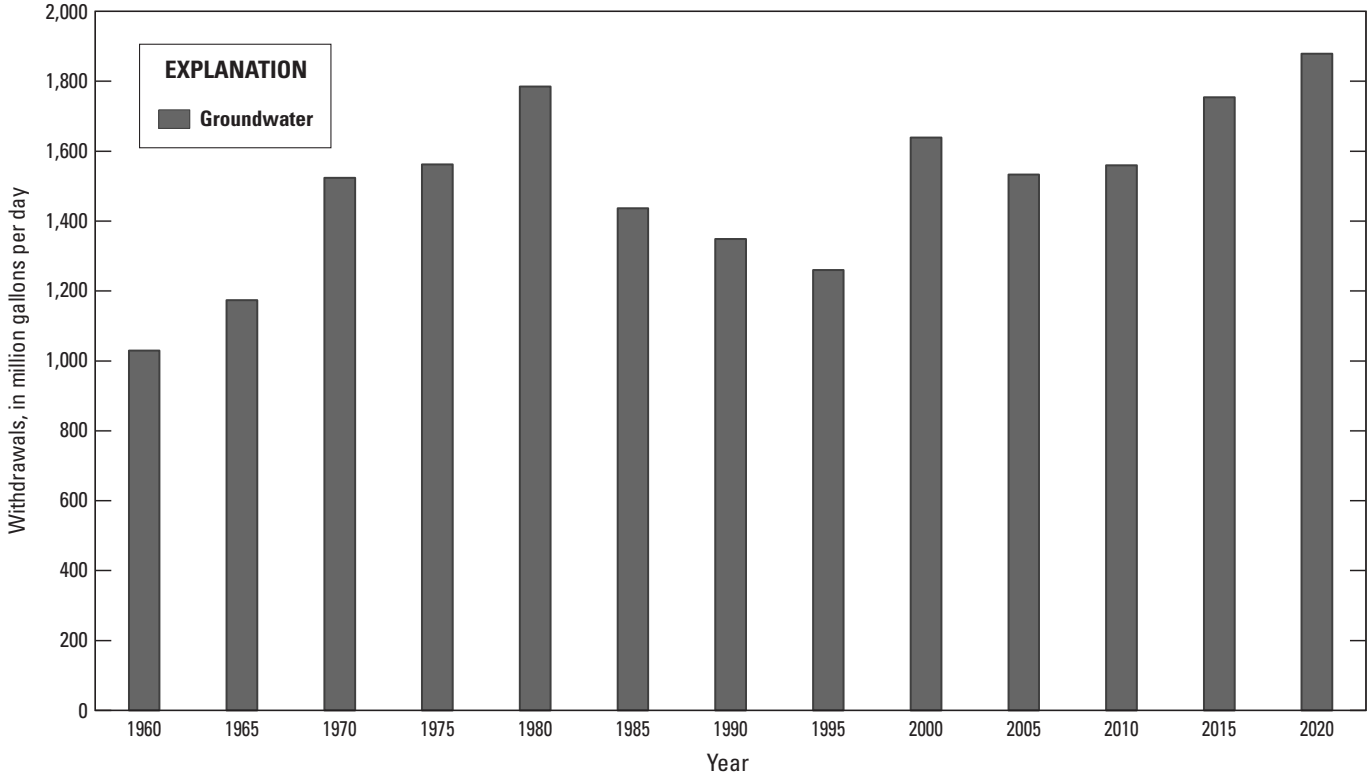

Figure 32. Total groundwater withdrawals in Louisiana, 1960–2020 (Robinson, 2025).

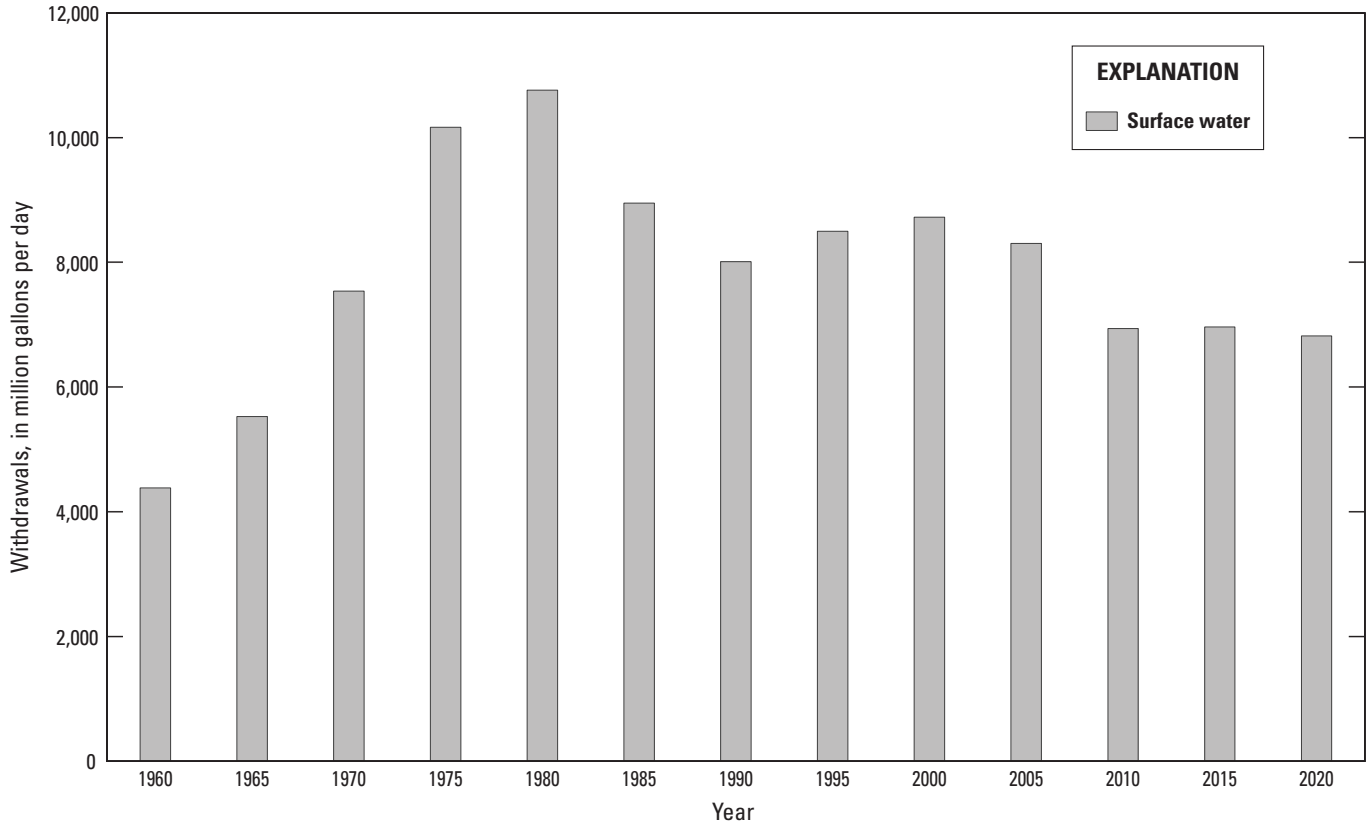

Figure 33. Total surface-water withdrawals in Louisiana, 1960–2020 (Robinson, 2025).

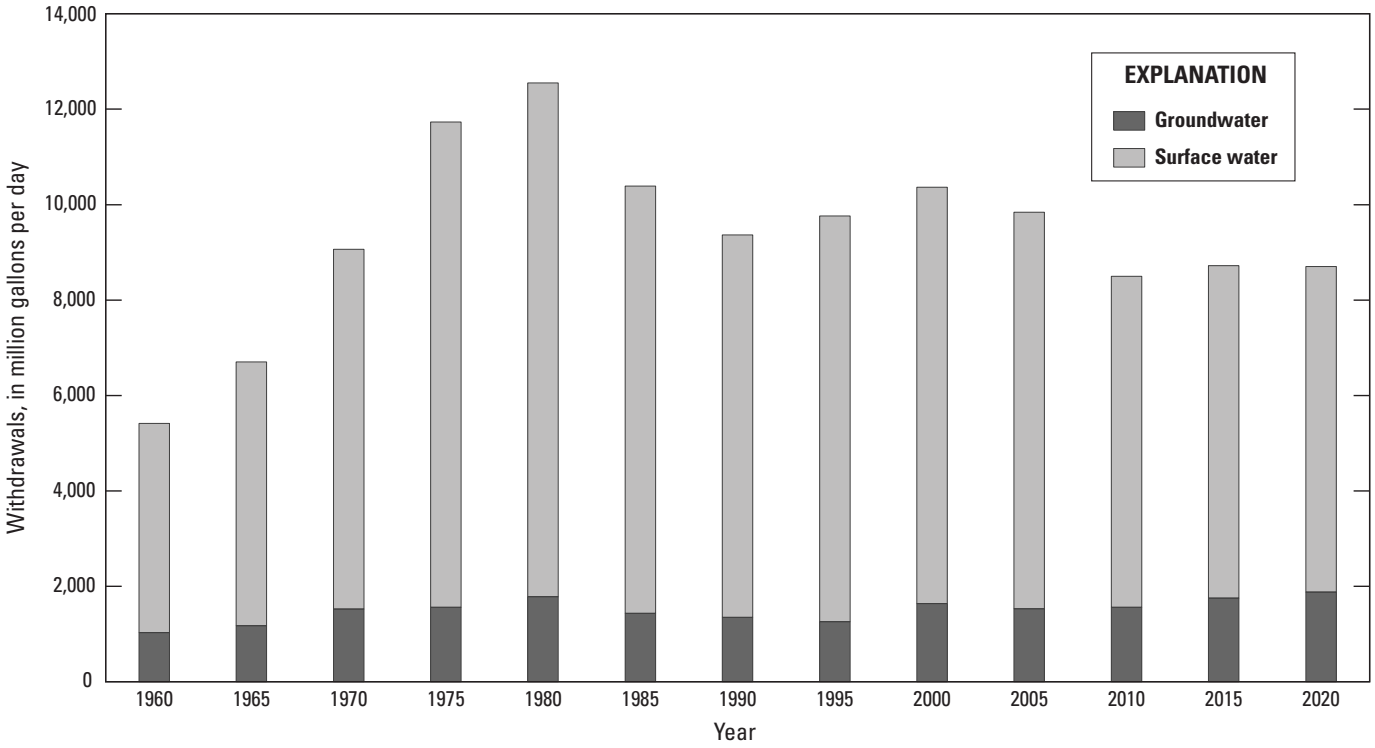

Figure 34. Total water withdrawals in Louisiana, 1960–2020 (Robinson, 2025).

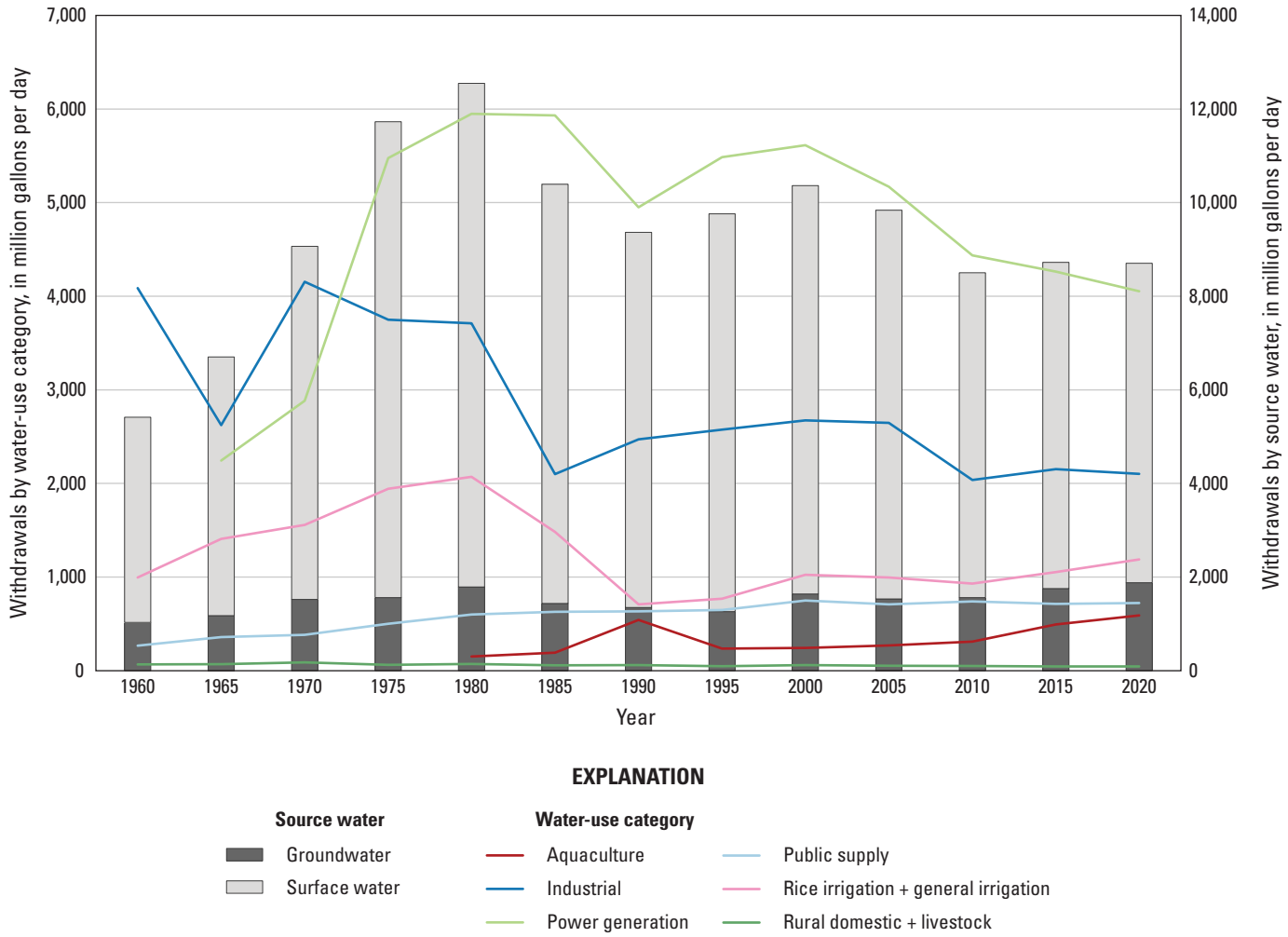

Figure 35. Total water withdrawals and total withdrawals by category in Louisiana, 1960–2020 (Robinson, 2025).

Summary

The U.S. Geological Survey (USGS), in cooperation with the Louisiana Department of Transportation and Development, collected water-withdrawal and water-use data from a 2020 inventory of water withdrawals in Louisiana. In 2020, public water suppliers in Louisiana withdrew approximately 720 million gallons per day (Mgal/d) of water, 360 Mgal/d from groundwater sources and 370 Mgal/d from surface-water sources, to supply approximately 4.2 million Louisiana residents. From 2015 to 2020, groundwater withdrawals for public-supply use decreased by 0.23 percent, surface-water withdrawals increased by 3.0 percent, and total water withdrawals for public-supply use increased by 1.4 percent.

Industry in Louisiana withdrew approximately 2,100 Mgal/d of water, 220 Mgal/d from groundwater sources and 1,900 Mgal/d from surface-water sources. Industrial withdrawals in 2020 accounted for 24 percent of all withdrawals. Since 2015, industrial groundwater use decreased by 14 percent and surface-water use decreased by 0.76 percent, resulting in an overall decrease of 2.4 percent in withdrawals.

Power-generation facilities withdrew approximately 4,100 Mgal/d, which accounted for about 47 percent of all water withdrawn in 2020. Of the 4,100 Mgal/d, only 31 Mgal/d came from groundwater sources, whereas more than 99 percent (more than 4,000 Mgal/d) originated from surface-water sources. The Mississippi River provided 73 percent (2,900 Mgal/d) of the surface water withdrawn for power-generation use. Groundwater withdrawals for power generation decreased by 18 percent from 2015 to 2020. Surface-water withdrawals decreased by 4.8 percent, resulting in an overall decrease of 4.9 percent for power-generation withdrawals from 2015 to 2020.

In 2020, an average of 69,000 Mgal/d of Mississippi River water passed through the turbines of the hydroelectric powerplant at the Old River Control Structure in southern Concordia Parish. For the hydroelectric powerplant at the Toledo Bend Reservoir in Sabine Parish near Burkeville, Texas, an average of 3,700 Mgal/d of water passed through

its turbines, 1,900 Mgal/d of which was counted as power-generation instream use for Louisiana in 2020. Hydroelectric power-generation instream use was not included in surface-water withdrawals in this report because the water was not considered to be withdrawn.

Approximately 490,000 people, or about 10 percent of Louisiana's total population, using privately owned domestic wells, withdrew an estimated 39 Mgal/d of groundwater for domestic use in 2020. Rural-domestic withdrawals decreased by 1.2 percent from 2015 to 2020. The small decrease is consistent with the continued expansion of public suppliers into rural areas and the resultant shift from the use of private domestic wells to public supplies.

Withdrawals for livestock were approximately 7.0 Mgal/d of water in 2020. Of this total, 3.7 Mgal/d was groundwater and 3.3 Mgal/d was surface water. Groundwater used for livestock increased by 16 percent and surface water increased by 5.2 percent, with a total increase of 11 percent in withdrawals for livestock from 2015 to 2020.

Rice farmers withdrew approximately 930 Mgal/d of water to irrigate their fields in 2020. Of this total, 620 Mgal/d was groundwater and 310 Mgal/d was surface water. The Chicot aquifer system in southwestern Louisiana provided 71 percent of the groundwater used for rice irrigation. Groundwater withdrawals for rice irrigation increased by 13 percent and surface-water withdrawals increased by 12 percent from 2015 to 2020. Rice-harvest acreage increased by 13 percent, and, congruently, total withdrawals for rice irrigation increased by 13 percent.

Farmers also withdrew approximately 190 Mgal/d of groundwater and 60 Mgal/d of surface water to irrigate crops other than rice in 2020. Groundwater withdrawals for these crops increased by 14 percent and surface-water withdrawals increased by 7.5 percent from 2015 to 2020. Withdrawals for general irrigation totaled about 250 Mgal/d in 2020 and increased by 12 percent from 2015 to 2020.

Water withdrawn for aquaculture in Louisiana was approximately 590 Mgal/d in 2020. Of this total, 410 Mgal/d was groundwater and 180 Mgal/d was surface water. Since 2015, groundwater withdrawals have increased by 21 percent and surface-water withdrawals have increased by 16 percent. Total withdrawals for aquaculture increased by 20 percent from 2015 to 2020.

Total withdrawals in 2020 were approximately 8,700 Mgal/d. Total groundwater withdrawals were 1,900 Mgal/d, and total surface-water withdrawals were 6,800 Mgal/d. In 2020, about 51 percent (960 Mgal/d) of all groundwater withdrawn was from the Chicot aquifer system, and about 24 percent (450 Mgal/d) was withdrawn from the Mississippi River alluvial aquifer. Approximately 72 percent (4,900 Mgal/d) of all surface water withdrawn was from the Mississippi River main stem.

From 2015 to 2020, groundwater withdrawals from the Chicot aquifer system increased by 13 percent, and withdrawals from the Mississippi River alluvial aquifer increased by 18 percent, resulting in a 7.1-percent increase in total groundwater withdrawals. During the same period, there was a 1.1-percent decrease in surface-water withdrawals from the main stem of the Mississippi River and total surface-water withdrawals decreased by 2.1 percent. Since 2015, total withdrawals for all water-use categories decreased by just 0.22 percent.

All water-withdrawal and water-use data presented in this report should be considered estimates. Because of rounding, totals and percentages presented in the tables, figures, and text in the report may differ slightly from totals or percentages calculated individually.

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Glossary

alluvial aquifer A water-bearing deposit of unconsolidated material (sand and gravel) left behind by a river or other flowing water (Kleiss and others, 2000).

aquaculture water use Water used in the farming of organisms that live in water within a confined space and under controlled feeding, sanitation, and harvesting procedures, and establishments primarily engaged in hatching fish and in operating fishing preserves (Dieter and others, 2018). In Louisiana, this use is primarily for fish, crawfish, and alligator farming. Instream fish farming is not included in this category.

aquifer A body of rock that contains sufficient saturated permeable material to conduct groundwater and to yield significant quantities of water to wells and springs (Jackson, 1997).

aquifer system A heterogeneous body of intercalated permeable and less permeable material that acts as a water-yielding hydraulic unit of regional extent (Jackson, 1997).

application rate The rate at which water is applied to a given area. Usually expressed in units of depth per time (Dickens and others, 2011).

cooling system An equipment system that provides water for cooling purposes, such as to condensers at power plants or at factories. May include water intakes, outlets, cooling towers, ponds, canals, pumps, and pipes. Generally, very little water is consumed. Types include once-through and closed-loop cooling (Dieter and others, 2018).

freshwater Water containing less than 1,000 milligrams per liter of dissolved solids; generally, water with more than 500 milligrams per liter is undesirable for drinking and for many industrial uses (Dieter and others, 2018).

groundwater In the broadest sense, all subsurface water; more commonly that part of the subsurface water that is in the saturated zone, including underground streams (U.S. Geological Survey, 2023).

hydroelectric power-generation water use The use of water in the generation of electricity at plants where the turbine generators are driven by falling water. Hydroelectric water use is most commonly an instream use (Bradley, 2017).

industrial water use Water used for fabrication, processing, washing, and cooling. Includes industries such as chemical and allied products, food, mining, paper and allied products, petroleum refining, and steel (Dieter and others, 2018).

instream use Water that is used, but not withdrawn, from a surface-water source for such purposes as hydroelectric power generation, navigation, water-quality improvement, fish propagation, and recreation. Instream use is not included in surface-water totals of this report (Dieter and others, 2018).

irrigation water use Any withdrawal made for the use of water application to vegetation. This use includes application to field crops such as rice, corn, cotton, fruit crops, nurseries, and special applications such as the watering of golf courses and sporting fields (Lovelace, 1991).

livestock water use Water used for watering, feedlots, dairy operations, and other livestock production needs of cattle, horses, sheep, swine, poultry, and other animals (Lovelace, 1991; Dieter and others, 2018).

miscellaneous streams Refers to surface-water sources from which water is withdrawn for aggregated use categories—livestock, irrigation, and aquaculture—when specific water-body sources were not identified. The term “miscellaneous streams” also is used to indicate sources such as streams, lakes, bayous, and canals for which withdrawals would be insignificant if listed individually (Lovelace, 1991).

once-through cooling Cooling system in which the water is withdrawn from a source, circulated through the heat exchangers, and then returned to a body of water at a higher temperature (Dieter and others, 2018). Little water, if any, used in this process is consumed (Lovelace, 1991). Also known as an open-loop cooling system.

per capita use The average amount of water used per person during a standard time period, generally per day (Solley and others, 1998).

power-generation water use Water used for thermoelectric power-generation purposes such as cooling, sanitation, washing, and steam generation. Use of water for hydroelectric power generation is considered an instream use and not a withdrawal. Therefore, hydroelectric power-generation use is not included in surface-water withdrawal summaries in this report but is reported as an instream use (Lovelace, 1991).

public-supply deliveries The amount of water withdrawn and delivered from a public supplier to users for domestic, commercial, industrial, thermoelectric-power, and public-use purposes (U.S. Geological Survey, 2023).

public-supply water use Water withdrawn and delivered to a group of users by public or private water suppliers. For this report, a public water supply is defined as one that serves at least 25 people or 15 connections year round. The water is used for a variety of purposes such as domestic, commercial, industrial, or public water needs (Lovelace, 1991).

rural-domestic water use Self-supplied water used by a person or family for personal home use, such as drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, and outdoor purposes such as watering lawns and gardens. These users are often in rural areas where public supplies are unavailable (Lovelace, 1991; Dieter and others, 2018).

saline water Water that contains 1,000 milligrams per liter or more of dissolved solids (Dieter and others, 2018).

Standard Industrial Classification (SIC) code A standard used by Federal agencies for the classification of establishments by type of activity. In 1987, a SIC revision was promulgated by the U.S. Office of Management and Budget to facilitate comparisons of economic statistics by the various government agencies. This SIC version was used as the reference for industrial classification in this report (Office of Management and Budget, 1987; Lovelace, 1991).

surface water An open body of water such as a lake, river, or stream (Solley and others, 1998).

surface-water basin The land area drained by a river or stream. Also referred to as a "drainage basin" or "watershed" (U.S. Geological Survey, 2023).

water use Water withdrawn or diverted from a groundwater or surface-water source for a specific purpose, such as for public supply, industry, power generation, rural domestic, livestock, irrigation, or aquaculture purposes (Lovelace, 1991; Dieter and others, 2018).

water withdrawal Water removed from a groundwater or surface-water source for use (Dieter and others, 2018).

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Appendixes

Appendix 1. Water Use by Parish

The one-page summaries of water-use information by parish presented in this appendix contain tables of estimated withdrawals by source of water and categories of use, water withdrawals by major public suppliers, and major industrial groups (Robinson, 2025). Also listed are parish population, population served by public supply, per capita withdrawals, total irrigated acreage, and amount of hydroelectric instream use in the parish (U.S. Census Bureau, 2020; Louisiana Cooperative Extension Service, 2023). The per capita withdrawal rate is the average daily total amount of all water withdrawn in the parish divided by the total parish population, given in gallons per day. Each summary page also contains a map that shows the location of the parish within the State and a bar chart presenting water-use trends since 1960. The historical data for the bar charts were from previous 5-year water-use compilations and are presented without interpretation.

The table of withdrawals by category of use summarizes each parish's groundwater, surface-water, and total water withdrawals for each of the defined categories of use: public supply, industry, power generation, rural domestic, livestock, rice irrigation, general irrigation, and aquaculture. In these tables, withdrawals that are less than 0.005 million gallons per day (Mgal/d), but greater than 0 are shown as 0.00.

The table of withdrawals by major public suppliers lists facilities in alphabetical order. For the purposes of this table, public suppliers are included only if the withdrawal was greater than or equal to 0.01 Mgal/d in 2020. Therefore, totaled withdrawals from this table may be less than the totals calculated for public supply in the table of withdrawals by category of use. Self-supplied institutions such as hospitals, prisons, and military installations, though included in the withdrawals for public supply, do not meet the strict definition of public supply and, like previous Louisiana water-use reports, are not listed in the table of major public suppliers.

The table of major industrial groups lists withdrawals by Standard Industrial Classification (SIC) code by groundwater and surface-water sources. For the purposes of this table, an industrial group was included only if the withdrawal amount was greater than or equal to 0.01 Mgal/d in 2020 and was used by a manufacturing sector of industry rather than a service or commercial sector. Therefore, totaled withdrawals from this table may be less than the totals calculated for industry in the table of withdrawals by category of use.

Acadia Parish

Population:	57,576
Population served by public supply:	43,206
Per capita withdrawals (gal/d):	4,784
Acres irrigated:	90,683
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

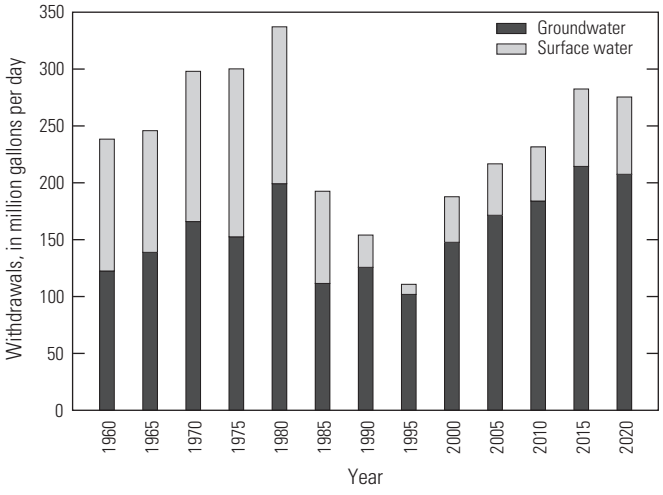
Water-use category	GW	SW	Total
Public supply	5.58	--	5.58
Industry	1.12	--	1.12
Power generation	2.26	2.43	4.70
Rural domestic	1.17	--	1.17
Livestock	0.09	0.01	0.10
Rice irrigation	120.50	51.10	171.60
General irrigation	1.07	1.07	2.13
Aquaculture	75.66	13.35	89.02
Total	**207.46**	**67.96**	**275.42**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
13 Oil and gas extraction	1.11	--
35 Industrial machinery	0.01	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Church Point Water System	0.53	--
Crowley Water System	1.93	--
Egan Water Corporation	0.50	--
Egan Water Corporation No. 2	0.27	--
Estherwood Water System	0.03	--
Iota Water System	0.18	--
Mermentau Water System	0.06	--
Mire-Branch Water Corporation	0.65	--
Morse Water System	0.10	--
North of Crowley Water Corporation	0.24	--
Rayne Water Supply	0.68	--
South Rayne Water Corporation	0.41	--

Allen Parish

Population:	22,750
Population served by public supply:	19,879
Per capita withdrawals (gal/d):	2,742
Acres irrigated:	16,266
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

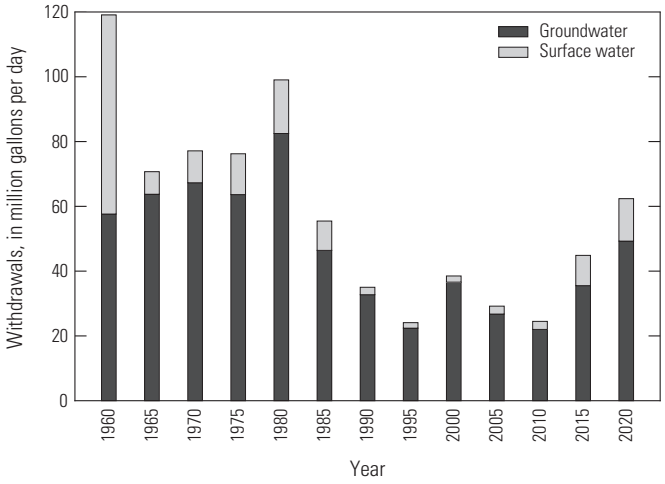
Water-use category	GW	SW	Total
Public supply	4.13	--	4.13
Industry	0.18	--	0.18
Rural domestic	0.23	--	0.23
Livestock	0.08	0.02	0.09
Rice irrigation	23.69	7.90	31.58
General irrigation	0.18	--	0.18
Aquaculture	20.77	5.19	25.96
Total	**49.26**	**13.11**	**62.37**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
26 Paper products	0.18	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
S.W.	southwest
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Allen Parish Water District No. 1	0.08	--
East Allen Water District	0.40	--
Elizabeth Water System	0.10	--
Northwest Allen Water System	0.07	--
Oakdale Water System	1.67	--
Oberlin Water System	0.16	--
S.W. Allen Water Works District 2	1.26	--
South Oakdale Water System	0.15	--
West Allen Water District	0.24	--

Ascension Parish

Population:	126,500
Population served by public supply:	92,769
Per capita withdrawals (gal/d):	1,510
Acres irrigated:	498
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

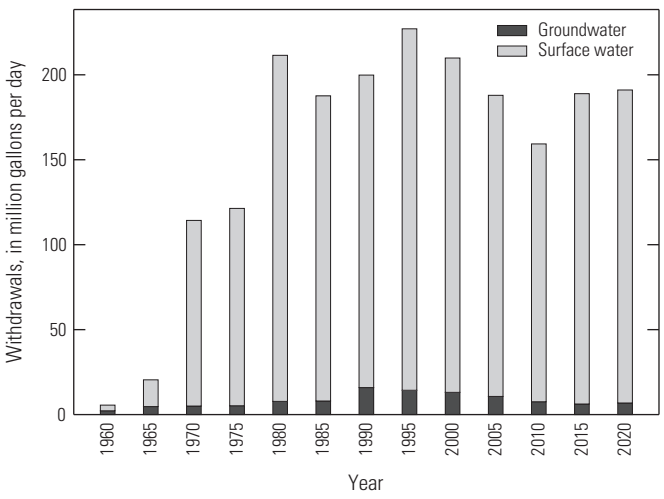
Water-use category	GW	SW	Total
Public supply	2.69	1.29	3.98
Industry	1.12	182.92	184.05
Rural domestic	2.70	--	2.70
Livestock	0.10	0.02	0.12
General irrigation	0.21	--	0.21
Total	**6.83**	**184.23**	**191.06**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
20	Food products	0.04	--
28	Chemicals	0.64	182.92
29	Petroleum refining	0.09	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Diversion Water Company	0.09	--
Gonzales Water System	2.52	--
Parish Utilities of Ascension Water System	--	1.29

Assumption Parish

Population:	21,039
Population served by public supply:	20,695
Per capita withdrawals (gal/d):	667
Acres irrigated:	540
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

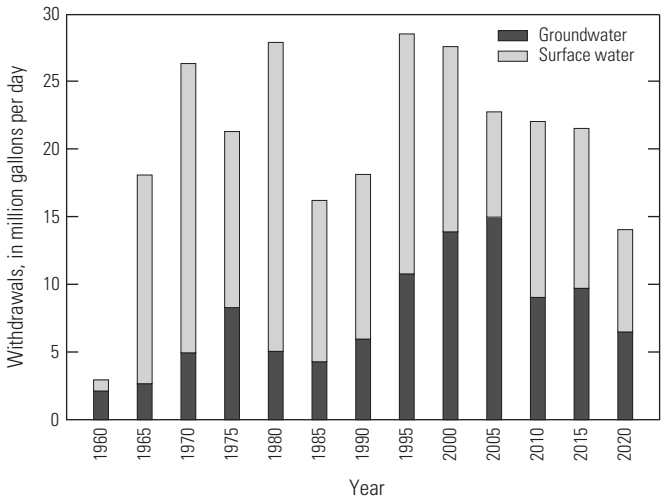
Water-use category	GW	SW	Total
Public supply	--	4.53	4.53
Industry	6.36	2.88	9.24
Rural domestic	0.03	--	0.03
Livestock	--	0.01	0.01
General irrigation	0.09	0.14	0.23
Total	**6.48**	**7.56**	**14.04**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
20	Food products	--	2.88
28	Chemicals	6.35	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Assumption Parish Waterworks No. 1	--	4.53

Avoyelles Parish

Population:	39,693
Population served by public supply:	37,496
Per capita withdrawals (gal/d):	1,853
Acres irrigated:	43,349
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

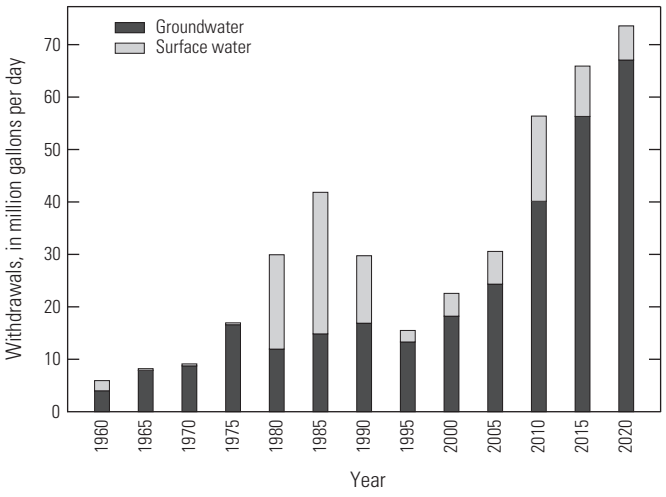
Water-use category	GW	SW	Total
Public supply	3.98	--	3.98
Rural domestic	0.18	--	0.18
Livestock	0.27	--	0.27
Rice irrigation	30.43	1.60	32.03
General irrigation	10.17	2.54	12.72
Aquaculture	7.08	2.36	9.45
Total	**52.12**	**6.51**	**58.62**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Inc.	Incorporated
Mgal/d	million gallons per day
No.	number
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020

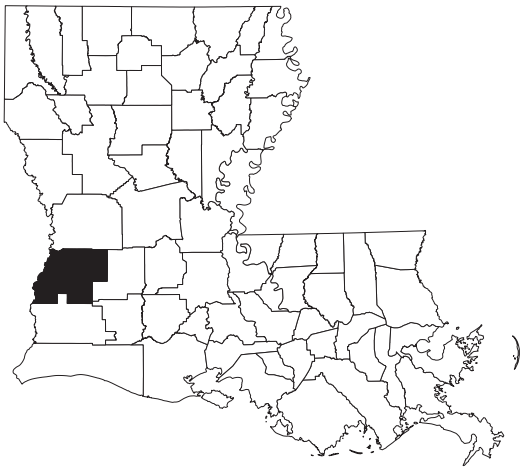


Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Avoyelles Water Works District No. 1	0.16	--
Avoyelles Water Commission	1.35	--
Brouillette Water System	0.20	--
Cottonport Water System	0.66	--
Evergreen Water System	0.13	--
Fifth Ward Water System	0.43	--
Hessmer Water System	0.28	--
Morrow Water System Inc.	0.10	--
Plaucheville Water System	0.15	--
Simmesport Water System	0.40	--
Southwest Avoyelles W.W.	0.12	--

Beauregard Parish

Population:	36,549
Population served by public supply:	26,426
Per capita withdrawals (gal/d):	1,135
Acres irrigated:	1,485
Hydroelectric power instream use (Mgal/d):	0



Withdrawals by water-use category (Mgal/d)

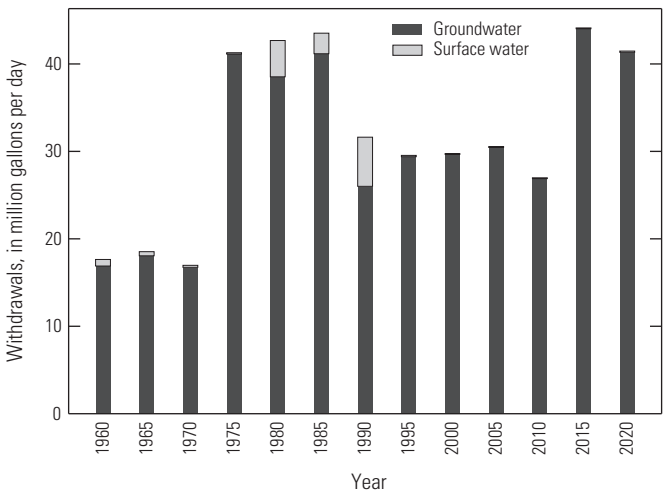
Water-use category	GW	SW	Total
Public supply	4.54	--	4.54
Industry	33.19	--	33.19
Rural domestic	0.81	--	0.81
Livestock	0.16	0.11	0.26
Rice irrigation	1.15	--	1.15
General irrigation	0.39	0.04	0.43
Aquaculture	1.09	--	1.09
Total	**41.33**	**0.15**	**41.47**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
26	Paper products	32.69	--
28	Chemicals	0.50	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Beauregard District 2 Ward 5	0.52	--
DeRidder Water System	1.74	--
Green Acres Water & Sewer	0.08	--
Merryville Water System	0.33	--
Waterworks District No. 3	1.86	--

Bienville Parish

Population:	12,981
Population served by public supply:	9,111
Per capita withdrawals (gal/d):	971
Acres irrigated:	0
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

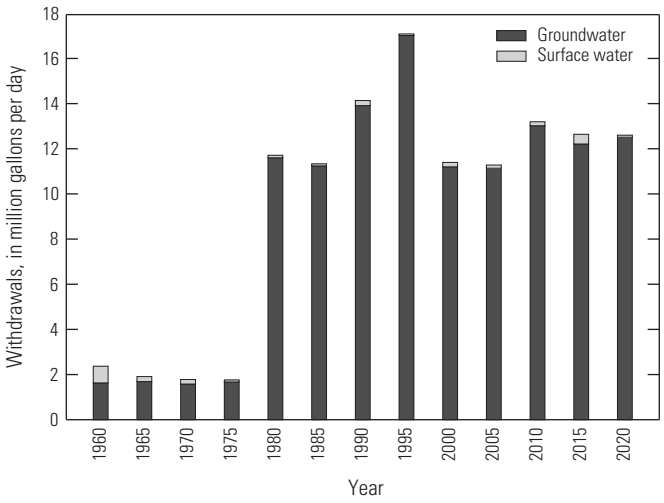
Water-use category	GW	SW	Total
Public supply	2.69	--	2.69
Industry	9.49	0.08	9.57
Rural domestic	0.31	--	0.31
Livestock	0.02	0.02	0.04
Total	**12.51**	**0.09**	**12.60**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
13 Oil and gas extraction	--	0.08
20 Food products	0.03	--
26 Paper products	9.46	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Alabama Water System	0.06	--
Alberta Water System	0.10	--
Arcadia Water System	1.25	--
Bienville Water System	0.03	--
Bryceland Water System	0.02	--
Castor Water System	0.02	--
Cypress Water System	0.03	--
Friendship Water System	0.05	--
Gibsland Water System	0.39	--
Jamestown-Fryeburg Water System	0.02	--
Lucky Water System	0.03	--
Mill Creek Water System	0.01	--
Mt. Calm Water System	0.02	--
Mt. Lebanon Water System	0.05	--
Mt. Olive Water System	0.08	--
Old Saline Community Water System	0.04	--
Ringgold Water System	0.30	--
S.E. Bienville Water System	0.01	--
Saline Water System	0.08	--
Social Springs Water System	0.02	--
Springhill Community Water System	0.02	--
Taylor Water System	0.04	--

Bossier Parish

Population:	128,746
Population served by public supply:	114,886
Per capita withdrawals (gal/d):	158
Acres irrigated:	2,764
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

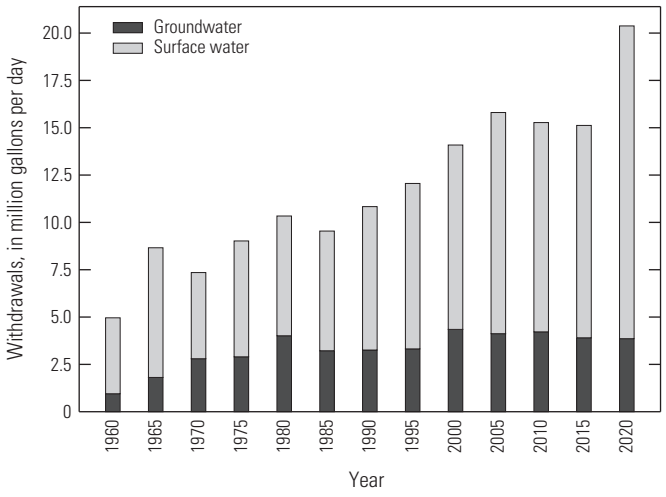
Water-use category	GW	SW	Total
Public supply	2.29	15.45	17.74
Industry	0.04	--	0.04
Rural domestic	1.11	--	1.11
Livestock	0.16	0.04	0.20
General irrigation	0.26	1.03	1.29
Total	**3.86**	**16.52**	**20.38**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Inc.	Incorporated
Mgal/d	million gallons per day
No.	number
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Bellevue Water System	0.11	--
Bodcau Water Works, Inc.	0.04	--
Bossier City Water System	--	15.45
Central Bossier Water System	0.08	--
Consolidated Water Works District No. 1	0.24	--
Evangeline Oaks Water System	0.01	--
Haughton Water System	0.39	--
Highland Water Works, LLC	0.05	--
Plain Dealing Water System	0.11	--
Saint Mary's Water System	0.02	--
Sligo Water System, Inc.	0.27	--
South Bossier Water System	0.18	--
Village Water System	0.77	--

Caddo Parish

Population:	237,848
Population served by public supply:	219,524
Per capita withdrawals (gal/d):	304
Acres irrigated:	15,011
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

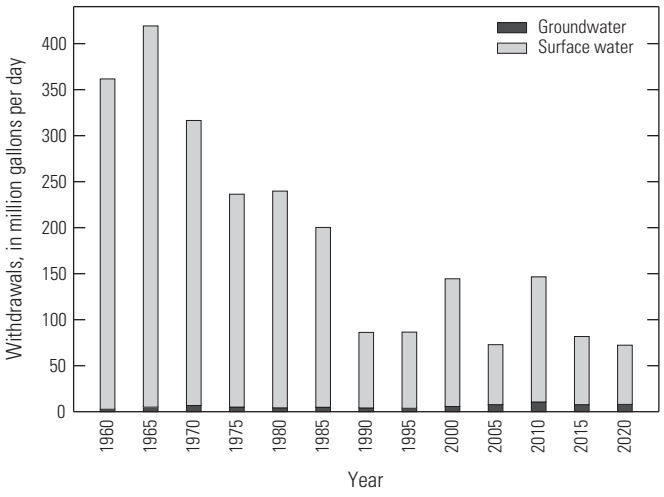
Water-use category	GW	SW	Total
Public supply	1.39	39.85	41.24
Industry	0.00	0.10	0.10
Power generation	--	22.97	22.97
Rural domestic	1.47	--	1.47
Livestock	0.07	0.17	0.24
General irrigation	5.01	1.25	6.27
Total	**7.94**	**64.34**	**72.28**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
29 Petroleum refining	--	0.10

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Bel-Di-Gil Water System	0.10	--
Blanchard Water System	--	1.74
Caddo Waterworks District No. 7	0.47	--
Deep Woods Utilities	0.07	--
Eagle Water Company	0.11	--
Evergreen Estates Water System	0.02	--
Four Forks Water System	0.04	--
Greenwood Water System	--	0.65
Hosston Mira Water System	0.02	--
Ida Water System	0.01	--
Oil City Water Works	--	0.19
Pine Hills Water Works	0.25	--
Rodessa Water System	0.03	--
Shreveport Water System	--	37.00
Vivian Water System	--	0.28
Wildwood Forest Water System	0.04	--

Calcasieu Parish

Population:	216,785
Population served by public supply:	192,084
Per capita withdrawals (gal/d):	911
Acres irrigated:	8,383
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

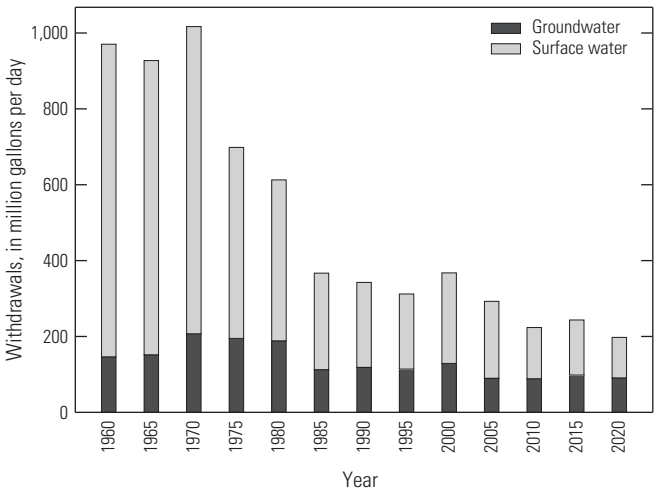
Water-use category	GW	SW	Total
Public supply	26.97	--	26.97
Industry	35.46	95.12	130.58
Power generation	7.34	3.91	11.25
Rural domestic	1.98	--	1.98
Livestock	0.15	0.22	0.37
Rice irrigation	12.47	4.16	16.63
General irrigation	0.01	--	0.01
Aquaculture	6.28	3.38	9.66
Total	**90.65**	**106.79**	**197.44**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
13	Oil and gas extraction	--	0.01
24	Lumber	0.03	--
28	Chemicals	22.29	81.83
29	Petroleum refining	10.17	13.28
30	Rubber and plastics	1.62	--
33	Primary metals	1.15	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Calcasieu W.W. District 4	0.47	--
Calcasieu W.W. District 5	0.46	--
Calcasieu W.W. District 7	0.32	--
Calcasieu W.W. District 8	0.80	--
Calcasieu W.W. District 9	1.52	--
Calcasieu W.W. District 14 of Ward 5	0.19	--
County Pines Subdivision Water System	0.09	--
DeQuincy Water System	0.46	--
East Park Subdivision	0.01	--
Garden Heights Water System	0.06	--
Gulf Stream Manor Water System	0.15	--
Houston River W.W. District 11	0.52	--
Iowa Water System	0.14	--
Lake Charles Water System	12.75	--
Lake Street Water Company	0.07	--
Moss Bluff Water District 1	2.49	--
Oak Meadows W.W.	0.03	--
Quail Ridge Estates Water System	0.06	--
South Calcasieu Estates Subdivision Water System	0.01	--
Sulphur Water System	4.29	--
Utilities Services of Lake Charles	0.03	--
Vinton Water System	0.48	--
Westlake Water System	1.41	--

Caldwell Parish

Population:	9,645
Population served by public supply:	8,911
Per capita withdrawals (gal/d):	406
Acres irrigated:	4,835
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

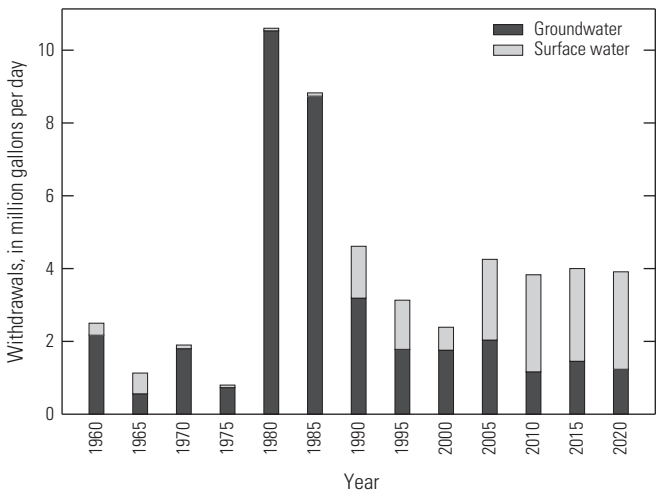
Water-use category	GW	SW	Total
Public supply	0.91	--	0.91
Rural domestic	0.06	--	0.06
Livestock	0.03	0.03	0.06
Rice irrigation	0.23	0.55	0.78
General irrigation	--	2.10	2.10
Total	**1.23**	**2.68**	**3.91**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Clarks Water System	0.08	--
Columbia Heights Water District	0.16	--
Columbia Water System	0.06	--
Cotton Plant Water System	0.04	--
East Columbia Water District	0.23	--
Grayson Water System	0.10	--
Hebert Water System	0.11	--
Kelly Water System	0.07	--
Vixen Water System East	0.02	--
Wards 4 & 5 Water System	0.05	--

Cameron Parish

Population:	5,617
Population served by public supply:	4,827
Per capita withdrawals (gal/d):	8,270
Acres irrigated:	12,623
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

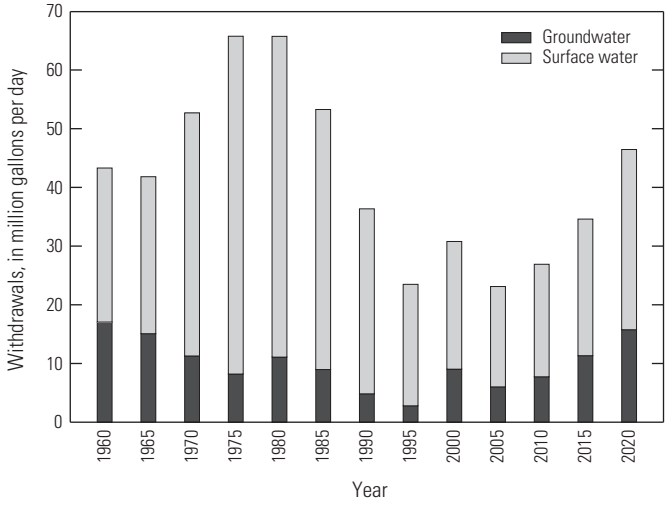
Water-use category	GW	SW	Total
Public supply	1.48	--	1.48
Industry	0.28	--	0.28
Rural domestic	0.10	--	0.10
Livestock	0.03	0.08	0.10
Rice irrigation	9.95	14.93	24.88
General irrigation	--	0.05	0.05
Aquaculture	3.91	15.65	19.56
Total	**15.75**	**30.70**	**46.45**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
13 Oil and gas extraction	0.10	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020

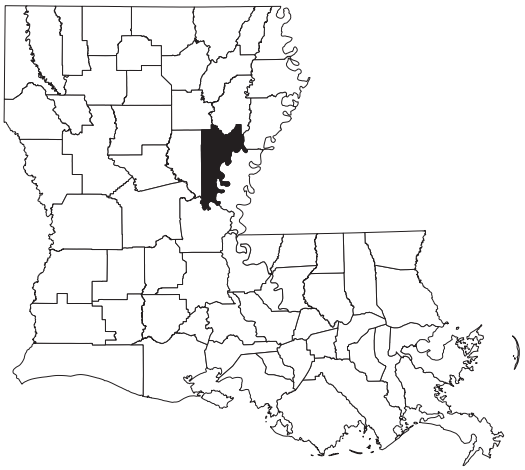


Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Cameron W.W. District 1	0.44	--
Cameron W.W. District 11 - Sweet Lake	0.46	--
Cameron W.W. District 2	0.42	--
Cameron W.W. District 7	0.02	--
Cameron W.W. District 9	0.14	--

Catahoula Parish

Population:	8,906
Population served by public supply:	7,774
Per capita withdrawals (gal/d):	2,657
Acres irrigated:	34,739
Hydroelectric power instream use (Mgal/d):	0



Withdrawals by water-use category (Mgal/d)

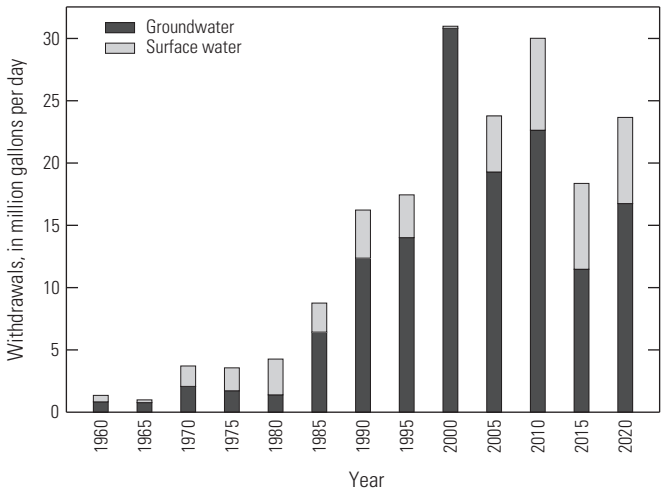
Water-use category	GW	SW	Total
Public supply	1.17	--	1.17
Rural domestic	0.09	--	0.09
Livestock	0.01	0.02	0.04
Rice irrigation	8.37	--	8.37
General irrigation	6.89	6.89	13.78
Aquaculture	0.21	--	0.21
Total	**16.75**	**6.92**	**23.66**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020

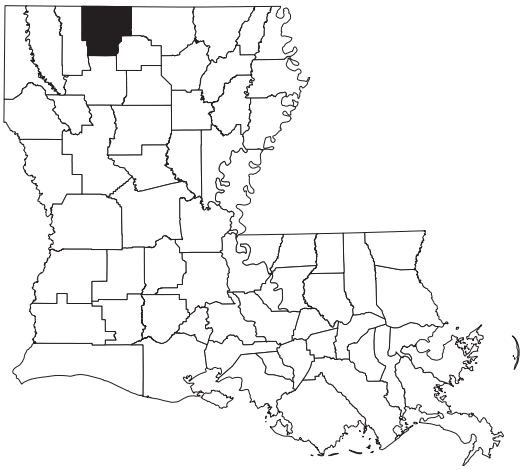


Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Black River Water System	0.21	--
Enterprise W.W. District 1	0.09	--
Harrisonburg Water System	0.10	--
Jonesville Water System	0.25	--
Leland Water System	0.05	--
Manifest Rhinehart Water System	0.15	--
Sandy Lake Water System	0.19	--
Sicily Island Water System	0.09	--
Whitehall Water System	0.03	--

Claiborne Parish

Population:	14,170
Population served by public supply:	12,335
Per capita withdrawals (gal/d):	139
Acres irrigated:	1
Hydroelectric power instream use (Mgal/d):	0



Withdrawals by water-use category (Mgal/d)

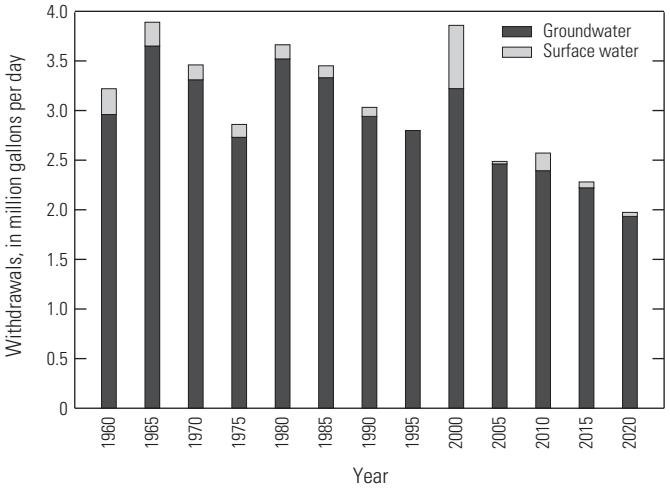
Water-use category	GW	SW	Total
Public supply	1.74	--	1.74
Rural domestic	0.15	--	0.15
Livestock	0.04	0.04	0.08
General irrigation	0.00	--	0.00
Total	**1.93**	**0.04**	**1.97**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020

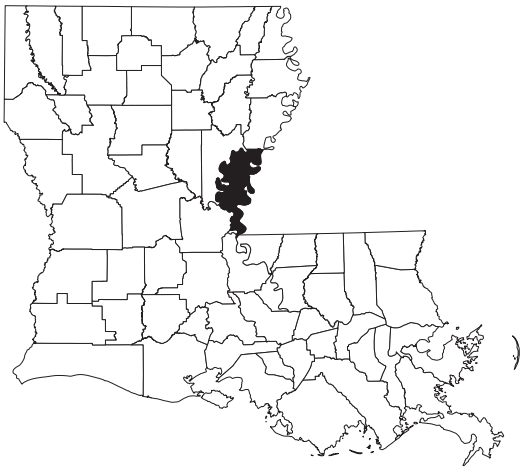


Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Athens Water System	0.03	--
Central Claiborne Water System	0.30	--
Claiborne Ward 9 Water System	0.02	--
Haynesville Water System	0.45	--
Homer Water System	0.51	--
Junction City Water System	0.02	--
Leatherman Creek Water System	0.03	--
Lisbon Water System	0.03	--
Middle Fork Water System	0.02	--
Norton Shop Water System	0.01	--
Pine Hill Water System	0.07	--
South Claiborne Water System	0.13	--
Summerfield Water System	0.09	--

Concordia Parish

Population:	18,687
Population served by public supply:	17,946
Per capita withdrawals (gal/d):	2,437
Acres irrigated:	49,717
Hydroelectric power instream use (Mgal/d):	69,393



Withdrawals by water-use category (Mgal/d)

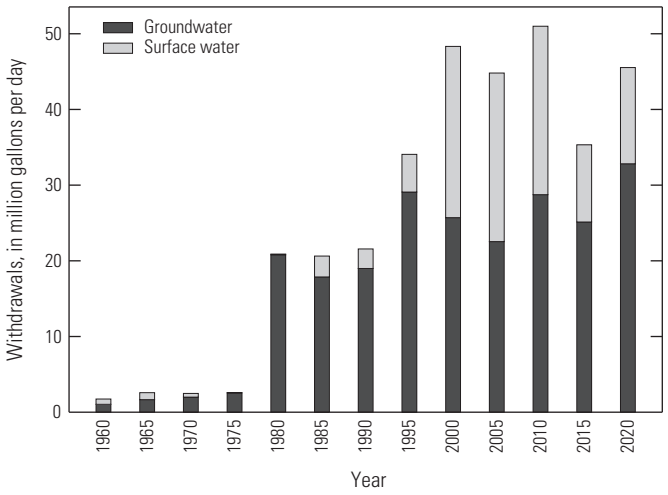
Water-use category	GW	SW	Total
Public supply	2.70	0.67	3.38
Power generation	--	3.12	3.12
Rural domestic	0.06	--	0.06
Livestock	0.04	0.01	0.04
Rice irrigation	13.20	7.11	20.31
General irrigation	15.77	1.75	17.53
Aquaculture	1.05	0.06	1.10
Total	**32.82**	**12.71**	**45.53**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020

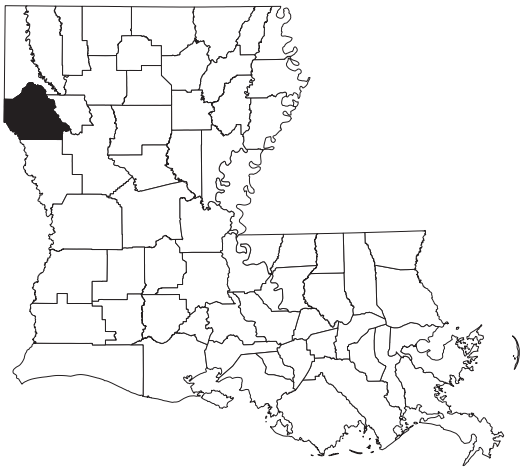


Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Clayton Water System	0.07	--
Concordia W.W. District 1	0.66	--
Ferriday Water System	--	0.67
Lake St. John Water District No. 1	0.16	--
Monterey Rural Water System	0.37	--
Ridgecrest Water System	0.08	--
Vidalia Water System	1.37	--

De Soto Parish

Population:	26,812
Population served by public supply:	19,302
Per capita withdrawals (gal/d):	895
Acres irrigated:	168
Hydroelectric power instream use (Mgal/d):	0



Withdrawals by water-use category (Mgal/d)

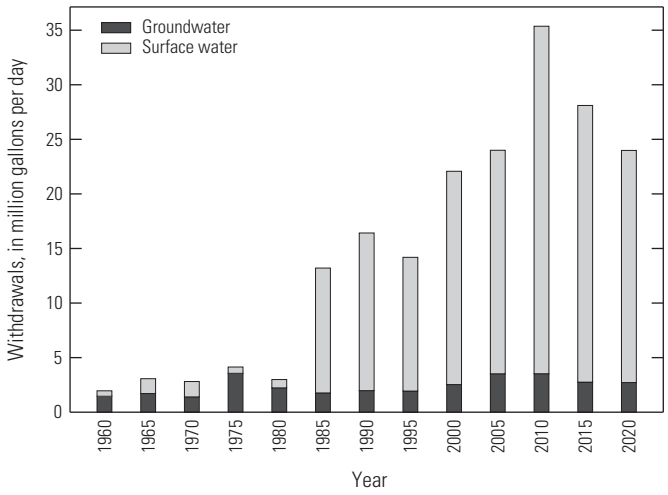
Water-use category	GW	SW	Total
Public supply	1.20	2.29	3.49
Industry	0.78	16.68	17.45
Power generation	--	2.18	2.18
Rural domestic	0.60	--	0.60
Livestock	0.13	0.04	0.17
General irrigation	0.01	0.08	0.09
Total	**2.72**	**21.27**	**23.98**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
26 Paper products	0.78	16.68

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Bayou Pierre Water System	0.10	--
DeSoto Parish W.W. District No. 1	--	0.67
East De Soto Water System	0.11	--
Grand Cane Water System	0.05	--
Keatchie Water System	0.25	--
Logansport Water System	--	0.40
Mansfield Water System	--	1.22
North De Soto Water System	0.38	--
Rambin-Wallace Water System	0.08	--
South De Soto Water System	0.12	--
South Mansfield Water System	0.11	--

East Baton Rouge Parish

Population:	456,781
Population served by public supply:	453,793
Per capita withdrawals (gal/d):	298
Acres irrigated:	108
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

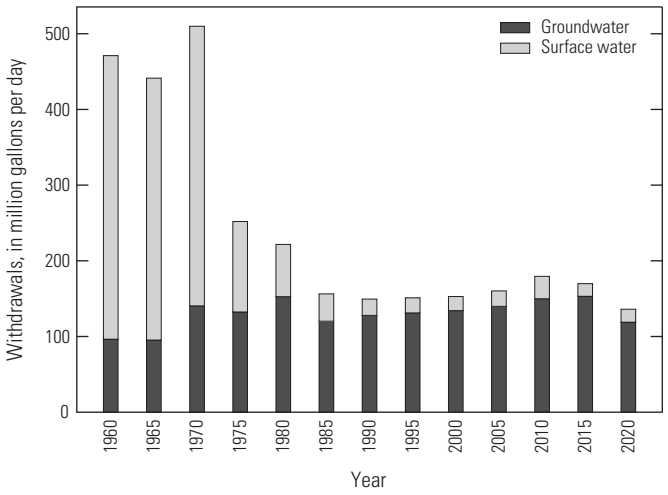
Water-use category	GW	SW	Total
Public supply	68.96	--	68.96
Industry	41.17	17.14	58.31
Power generation	7.92	--	7.92
Rural domestic	0.24	--	0.24
Livestock	0.08	0.01	0.08
General irrigation	0.31	--	0.31
Aquaculture	0.21	--	0.21
Total	**118.88**	**17.15**	**136.02**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
20	Food products	0.56	--
26	Paper products	8.70	--
28	Chemicals	21.19	--
29	Petroleum refining	10.50	17.14
30	Rubber and plastics	0.17	--
33	Primary metals	0.02	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Baker Utilities	1.55	--
Baton Rouge Water Company	54.55	--
Parish Water Company	10.29	--
Red Oak Water Company	0.02	--
Slaughter Water System	0.07	--
Zachary Water System	2.38	--

East Carroll Parish

Population:	7,459
Population served by public supply:	7,274
Per capita withdrawals (gal/d):	2,971
Acres irrigated:	41,796
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

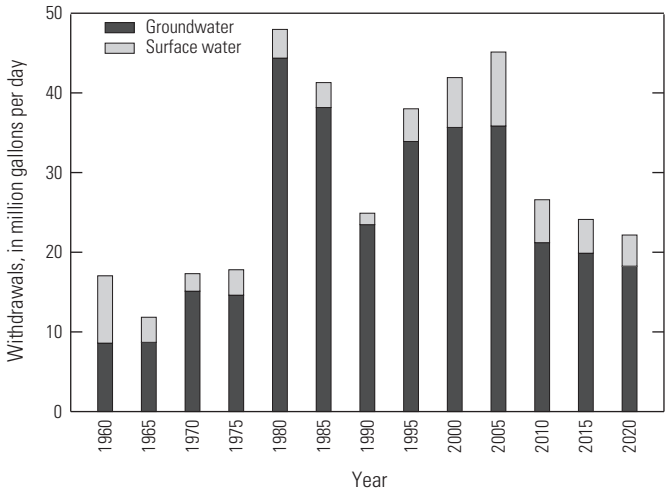
Water-use category	GW	SW	Total
Public supply	0.82	--	0.82
Rural domestic	0.01	--	0.01
Livestock	0.00	0.00	0.01
Rice irrigation	3.22	0.36	3.57
General irrigation	14.20	3.55	17.75
Total	**18.25**	**3.91**	**22.16**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Lake Providence Water System	0.82	--

East Feliciana Parish

Population:	19,539
Population served by public supply:	16,199
Per capita withdrawals (gal/d):	180
Acres irrigated:	796
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

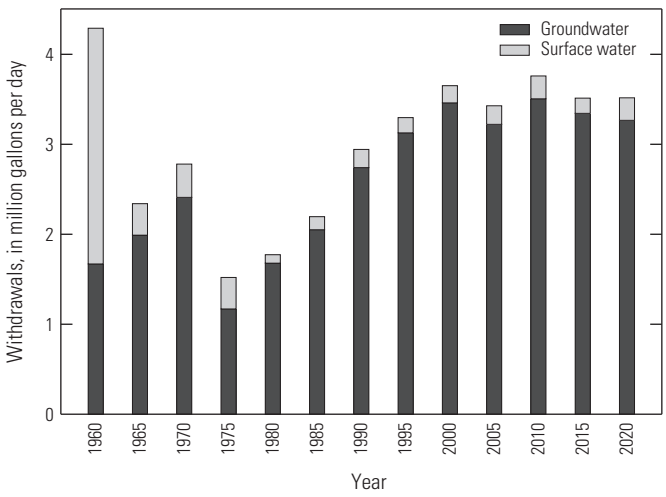
Water-use category	GW	SW	Total
Public supply	2.67	--	2.67
Industry	0.03	--	0.03
Rural domestic	0.27	--	0.27
Livestock	0.02	0.16	0.18
General irrigation	0.28	0.09	0.37
Total	**3.27**	**0.25**	**3.52**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Clinton Water System	0.34	--
East Feliciana Rural Water System	1.04	--
East Feliciana Water District No. 1	0.05	--
East Feliciana Water District No. 7	0.21	--
Jackson Water System	0.21	--
Norwood Water System	0.08	--
Slaughter Water System	0.07	--
Wilson Water System	0.06	--

Evangeline Parish

Population:	32,350
Population served by public supply:	28,284
Per capita withdrawals (gal/d):	10,664
Acres irrigated:	51,551
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

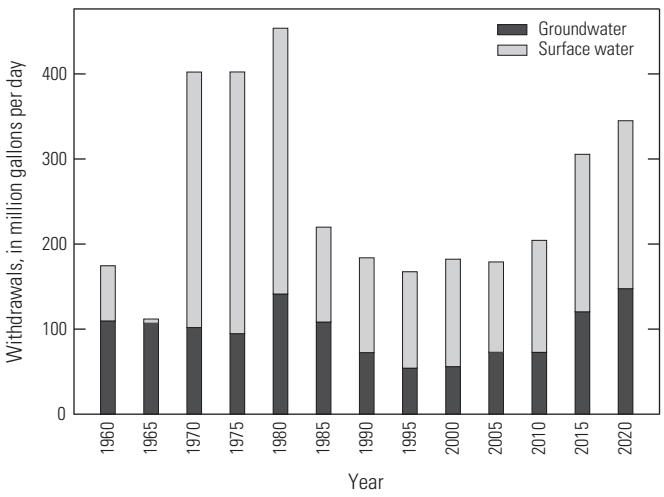
Water-use category	GW	SW	Total
Public supply	5.62	--	5.62
Industry	1.97	--	1.97
Power generation	6.41	179.56	185.97
Rural domestic	0.33	--	0.33
Livestock	0.15	0.05	0.20
Rice irrigation	85.77	9.53	95.31
General irrigation	1.43	0.16	1.58
Aquaculture	45.90	8.10	54.00
Total	**147.59**	**197.40**	**344.99**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
13 Oil and gas extraction	0.81	--
28 Chemicals	1.12	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Inc.	Incorporated
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Bayou Des Cannes Water System	0.49	--
Chataignier Water System, Inc.	0.11	--
East Side Water System	0.24	--
Evangeline Water District 1	0.17	--
Mamou Road Water District	0.16	--
Mamou Water System	0.35	--
Point Blue Water System	0.21	--
Reddell-Vidrine Water District	0.18	--
Savoy-Swords Water System	0.51	--
Te Mamou Water District	0.39	--
Turkey Creek Water System	0.40	--
Ville Platte Water System	1.88	--
Ward 4 Water System	0.48	--
Ward 5 W.W. District 1	0.07	--

Franklin Parish

Population:	19,774
Population served by public supply:	12,017
Per capita withdrawals (gal/d):	2,261
Acres irrigated:	69,327
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

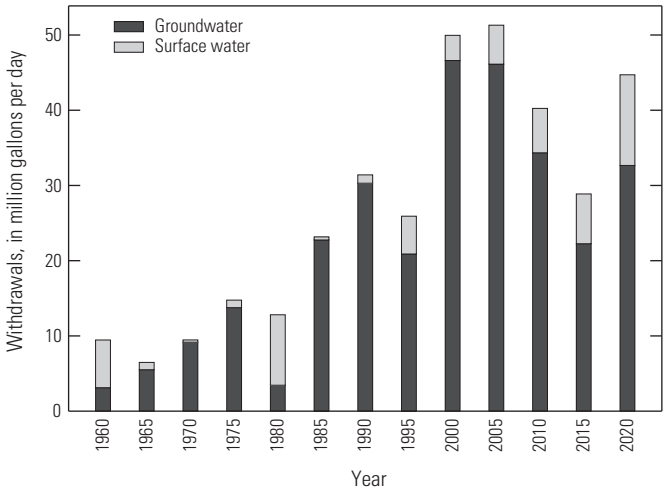
Water-use category	GW	SW	Total
Public supply	1.14	--	1.14
Industry	0.36	--	0.36
Rural domestic	0.62	--	0.62
Livestock	0.17	--	0.17
Rice irrigation	2.24	8.94	11.18
General irrigation	27.99	3.11	31.10
Aquaculture	0.13	--	0.13
Total	**32.66**	**12.05**	**44.71**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
20 Food products	0.15	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
North Franklin Water Works	0.41	--
Turkey Creek Water System	0.28	--
West Winnsboro Water System	0.36	--
Wisner Water System	0.10	--

Grant Parish

Population:	22,169
Population served by public supply:	19,413
Per capita withdrawals (gal/d):	300
Acres irrigated:	1,925
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

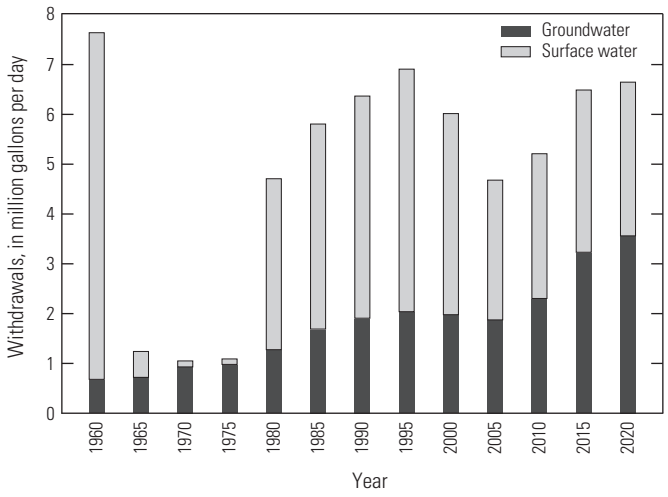
Water-use category	GW	SW	Total
Public supply	3.26	2.18	5.44
Industry	0.06	--	0.06
Rural domestic	0.22	--	0.22
Livestock	0.02	0.03	0.05
General irrigation	--	0.88	0.88
Total	**3.56**	**3.09**	**6.65**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
24 Lumber	0.06	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Central Grant Water System	0.41	--
Colfax Water System	0.58	--
Dry Prong Water System	0.05	--
Grant Zone 2 Water System	0.07	--
Jordan Hill\Red Hill Waterworks	0.03	--
Montgomery Water System	0.14	--
Pollock Area Water System	0.36	--
Pollock Water System	0.87	--
Rapides Parish W.W. District 3	--	2.18
South Grant Water Corporation	0.37	--
Southeast Grant Water System	0.05	--
West Grant Water Association	0.31	--

Iberia Parish

Population:	69,929
Population served by public supply:	57,558
Per capita withdrawals (gal/d):	444
Acres irrigated:	1,197
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

Water-use category	GW	SW	Total
Public supply	7.32	--	7.32
Industry	3.86	3.46	7.32
Rural domestic	1.04	--	1.04
Livestock	0.06	0.01	0.08
Rice irrigation	0.17	1.24	1.41
General irrigation	0.26	--	0.26
Aquaculture	10.88	2.72	13.60
Total	**23.60**	**7.43**	**31.03**

Withdrawals by major industrial group (Mgal/d)

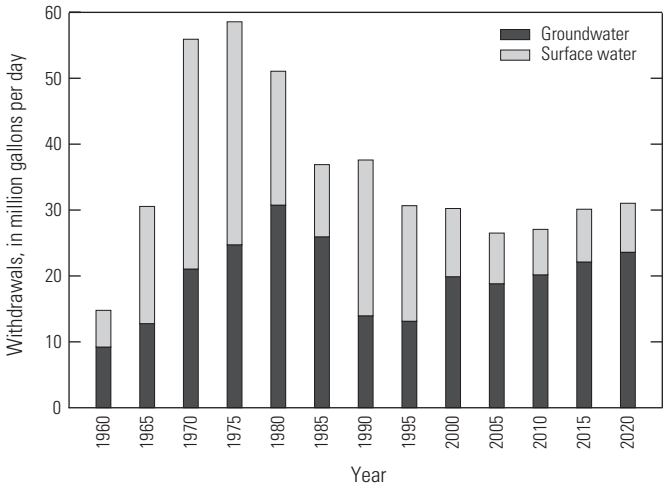
Standard Industrial Classification		GW	SW
20	Food products	0.78	--
28	Chemicals	0.19	3.46
32	Glass, clay, and concrete	0.01	--
38	Instrumentation	2.88	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
--	no withdrawals in 2020

Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Bayou Teche Water Works	0.79	--
Jeanerette Water System	0.91	--
Loreauville Water System	0.08	--
New Iberia Water System	5.05	--
Water Works District No. 3	0.49	--



Iberville Parish

Population:	30,241
Population served by public supply:	28,317
Per capita withdrawals (gal/d):	15,491
Acres irrigated:	2,966
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

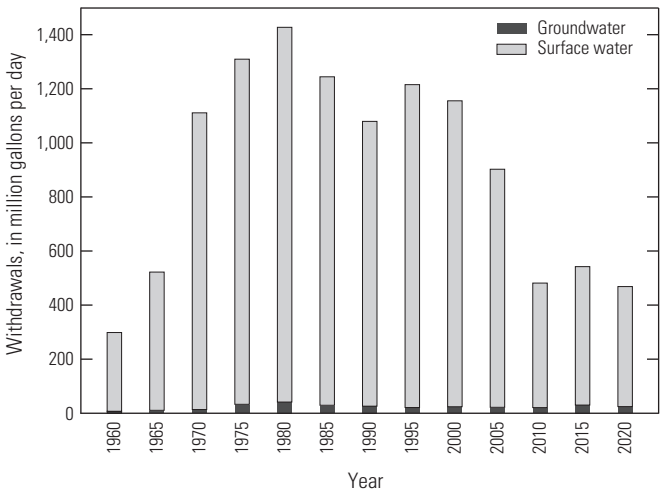
Water-use category	GW	SW	Total
Public supply	2.09	0.75	2.84
Industry	21.38	442.03	463.41
Rural domestic	0.15	--	0.15
Livestock	0.06	0.02	0.08
General irrigation	0.81	0.54	1.36
Aquaculture	0.12	0.50	0.62
Total	**24.63**	**443.84**	**468.47**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
13	Oil and gas extraction	--	0.01
20	Food products	6.84	1.47
28	Chemicals	14.46	440.56
29	Petroleum refining	0.08	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Iberville Water Works District 3	0.59	0.75
Maringouin Water System	0.42	--
North Iberville Water System	0.27	--
Plaquemine City Light & Water	0.42	--
Rosedale Water System	0.06	--
White Castle Water System	0.33	--

Jackson Parish

Population:	15,031
Population served by public supply:	13,233
Per capita withdrawals (gal/d):	311
Acres irrigated:	0
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

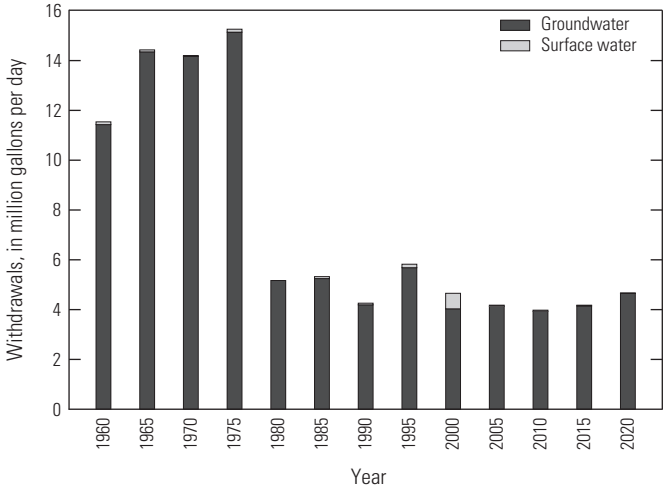
Water-use category	GW	SW	Total
Public supply	1.68	--	1.68
Industry	2.83	--	2.83
Rural domestic	0.14	--	0.14
Livestock	0.00	0.02	0.02
Total	**4.65**	**0.02**	**4.67**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
26 Paper products	2.83	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Inc.	Incorporated
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Bear Creek Water System	0.03	--
Chatham Water System	0.04	--
East Hodge Water System	0.07	--
Eros Community Water System	0.04	--
Eros Water System	0.03	--
Hodge Water System	0.22	--
Jonesboro Water System	0.68	--
McDonald Water System	0.08	--
New Hope St. Claire Water System	0.02	--
North Hodge Water System	0.03	--
Punkin Center Hilltop Water System	0.13	--
Quitman Water System	0.05	--
Robinson Chapel Water System	0.01	--
Shady Grove Water System	0.02	--
Southeast Hodge Water System	0.01	--
Spring Creek Subdivision Water System	0.02	--
Vixen Water System West	0.01	--
Walker Community Water System	0.03	--
Weston Water System Inc.	0.17	--

Jefferson Parish

Population:	440,781
Population served by public supply:	440,369
Per capita withdrawals (gal/d):	2,012
Acres irrigated:	0
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

Water-use category	GW	SW	Total
Public supply	--	64.75	64.75
Industry	0.05	7.15	7.20
Power generation	4.80	809.94	814.74
Rural domestic	0.03	--	0.03
Livestock	--	0.00	0.00
General irrigation	0.02	0.01	0.02
Total	**4.90**	**881.85**	**886.75**

Withdrawals by major industrial group (Mgal/d)

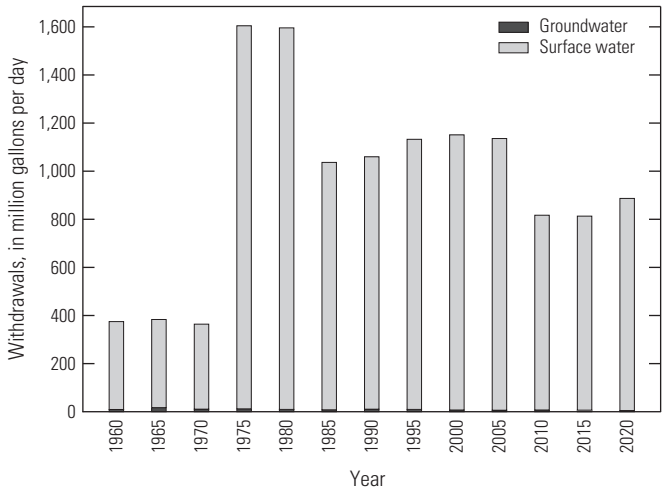
Standard Industrial Classification	GW	SW
20 Food products	0.05	--
28 Chemicals	--	7.15

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020

Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
East Jefferson W.W. District No. 1	--	38.32
Gretna W.W.	--	3.21
West Jefferson W.W. District No. 2	--	23.21



Jefferson Davis Parish

Population:	32,250
Population served by public supply:	27,330
Per capita withdrawals (gal/d):	9,304
Acres irrigated:	82,822
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

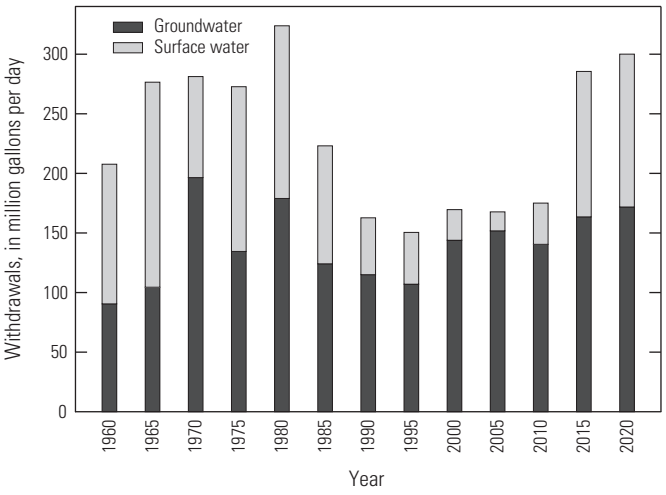
Water-use category	GW	SW	Total
Public supply	4.17	--	4.17
Rural domestic	0.39	--	0.39
Livestock	0.12	--	0.12
Rice irrigation	114.04	48.88	162.92
General irrigation	0.23	0.15	0.38
Aquaculture	52.83	79.24	132.07
Total	**171.79**	**128.27**	**300.06**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Fenton Water System	0.03	--
Jefferson Davis Central W.W. District	0.55	--
Jefferson Davis W.W. District 4	0.32	--
Jefferson Davis Water and Sewer Commission	0.77	--
Jennings Water System	1.68	--
Lake Arthur Water System	0.36	--
Welsh Water System	0.46	--

Lafayette Parish

Population:	241,753
Population served by public supply:	208,519
Per capita withdrawals (gal/d):	155
Acres irrigated:	1,716
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

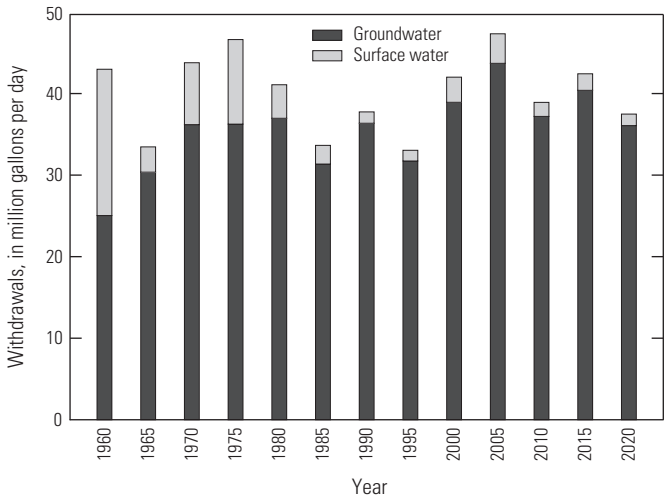
Water-use category	GW	SW	Total
Public supply	25.12	--	25.12
Industry	0.01	--	0.01
Power generation	--	--	--
Rural domestic	2.66	--	2.66
Livestock	0.10	--	0.10
Rice irrigation	2.28	0.57	2.86
General irrigation	0.11	0.20	0.30
Aquaculture	5.80	0.64	6.44
Total	**36.08**	**1.41**	**37.49**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Inc.	Incorporated
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Broussard Water System	0.53	--
Carencro Water System	0.98	--
Duson Water System	0.13	--
Lafayette Utilities System	23.03	--
Milton Water System, Inc.	0.13	--
Shady Oaks Estates Water System	0.01	--
Village Quest Subdivision Water System	0.02	--
Youngsville Water System	0.12	--

Lafourche Parish

Population:	97,557
Population served by public supply:	97,316
Per capita withdrawals (gal/d):	465
Acres irrigated:	587
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

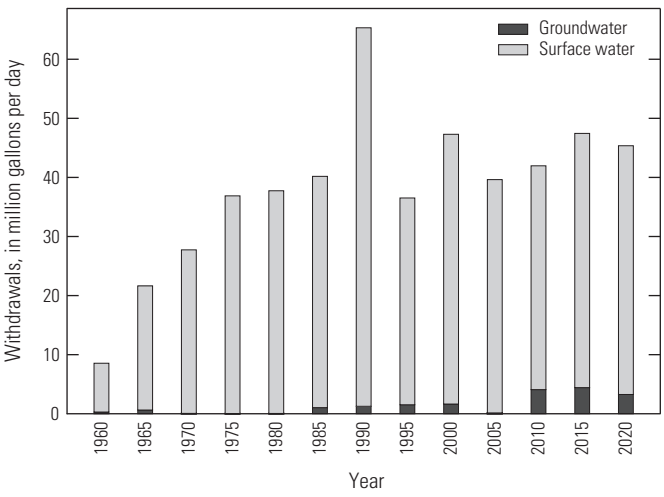
Water-use category	GW	SW	Total
Public supply	--	27.19	27.19
Industry	0.41	3.78	4.19
Rural domestic	0.02	--	0.02
Livestock	0.09	0.09	0.19
General irrigation	--	0.10	0.10
Aquaculture	2.74	10.94	13.68
Total	**3.26**	**42.10**	**45.36**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
20	Food products	--	3.78
28	Chemicals	0.41	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Lafourche Parish Water District Number 1	--	10.57
Terrebonne Parish Consolidated W.W. District Number 1	--	13.00
Thibodaux Water System	--	3.62

LaSalle Parish

Population:	14,791
Population served by public supply:	14,086
Per capita withdrawals (gal/d):	148
Acres irrigated:	556
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

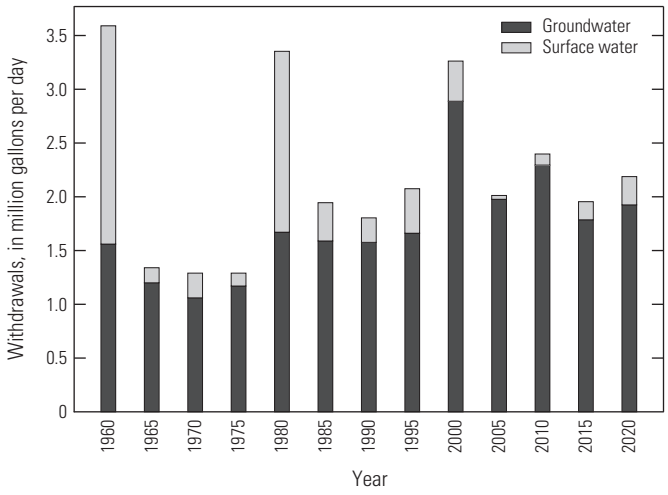
Water-use category	GW	SW	Total
Public supply	1.86	--	1.86
Industry	--	0.00	0.00
Rural domestic	0.06	--	0.06
Livestock	0.01	0.02	0.03
General irrigation	--	0.24	0.24
Total	**1.92**	**0.26**	**2.19**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Belah-Fellowship Water System	0.07	--
East Jena Water System	0.13	--
Jena Water System	0.55	--
La Salle W.W. District 1	0.30	--
Nebo Water System	0.11	--
Olla Water System	0.20	--
Rogers Community Water System	0.02	--
Summerville-Rosefield Water	0.21	--
Tullos Water System	0.13	--
Urania Water System	0.14	--

Lincoln Parish

Population:	48,396
Population served by public supply:	46,020
Per capita withdrawals (gal/d):	147
Acres irrigated:	4
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

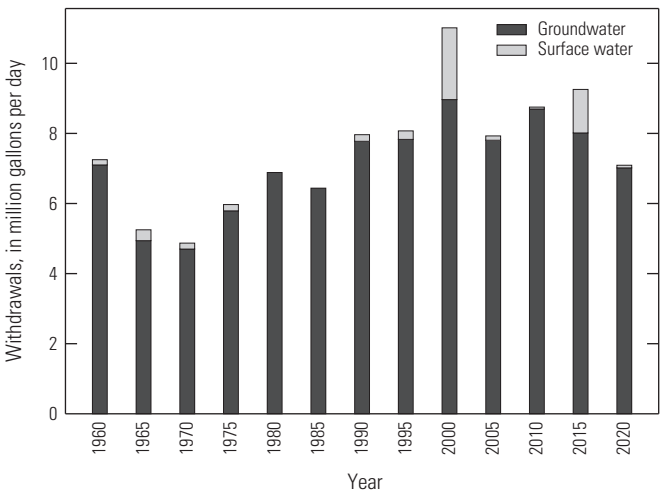
Water-use category	GW	SW	Total
Public supply	6.20	--	6.20
Industry	0.62	--	0.62
Rural domestic	0.19	--	0.19
Livestock	0.01	0.07	0.08
General irrigation	0.00	0.00	0.00
Total	**7.02**	**0.08**	**7.09**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
24 Lumber	0.03	--
32 Glass, clay, and concrete	0.17	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Choudrant Water System	0.27	--
Culbertson Water System	0.26	--
Dubach Water System	0.06	--
Fellowship Water System	0.05	--
Grambling Water System	0.43	--
Greater Ward 1 W.W. District	0.53	--
Hico Water System	0.11	--
Hilly-Greenwood Water System	0.13	--
Lincoln W.W. District 1	0.05	--
Lincoln W.W. District 3	0.27	--
Mineral Springs Water System	0.07	--
Mt. Olive Water District	0.03	--
Mt. Zion Water System	0.24	--
Ruston Utilities System	3.22	--
Simsboro Water System	0.09	--
Wesley Chapel Water System	0.36	--

Livingston Parish

Population:	142,282
Population served by public supply:	117,165
Per capita withdrawals (gal/d):	113
Acres irrigated:	8
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

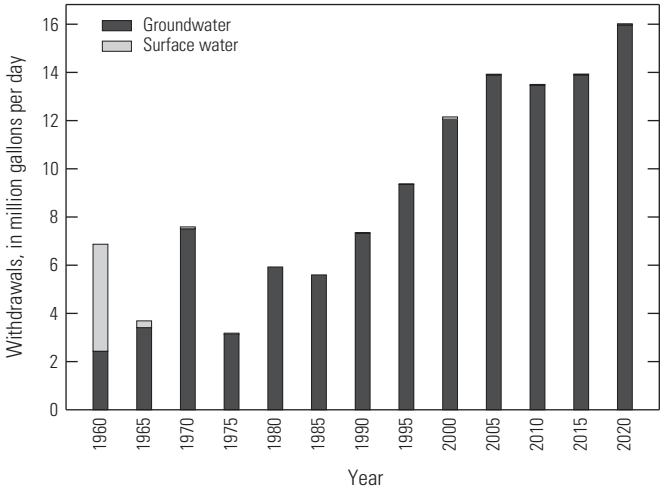
Water-use category	GW	SW	Total
Public supply	13.62	--	13.62
Industry	0.01	--	0.01
Rural domestic	2.01	--	2.01
Livestock	0.07	0.05	0.12
General irrigation	0.01	--	0.01
Aquaculture	0.25	--	0.25
Total	**15.97**	**0.05**	**16.02**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
20 Food products	0.01	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Albany Water System	0.69	--
Colyell Community Water Association	0.21	--
Denham Springs Water Department	1.88	--
Fourth Ward Water Works	0.28	--
French Settlement Water System	0.21	--
Head of Island Water System	0.17	--
Killian Water System	0.13	--
Livingston Water System	0.67	--
Springfield Water System	0.22	--
Walker Water System	2.12	--
Ward 2 Water District	6.97	--

Madison Parish

Population:	10,017
Population served by public supply:	9,804
Per capita withdrawals (gal/d):	4,766
Acres irrigated:	66,208
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

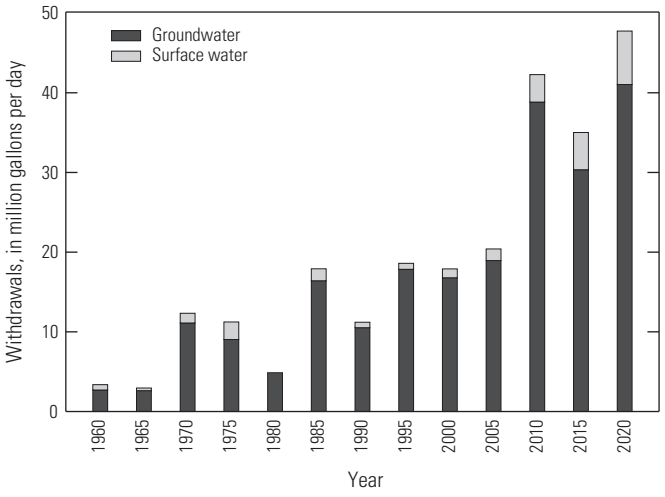
Water-use category	GW	SW	Total
Public supply	1.80	--	1.80
Rural domestic	0.02	--	0.02
Livestock	0.01	0.01	0.02
Rice irrigation	16.88	4.22	21.09
General irrigation	22.33	2.48	24.82
Total	**41.04**	**6.71**	**47.75**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Tallulah Water Service	1.15	--
Walnut Bayou Water Association	0.65	--

Morehouse Parish

Population:	25,629
Population served by public supply:	23,673
Per capita withdrawals (gal/d):	4,935
Acres irrigated:	103,188
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

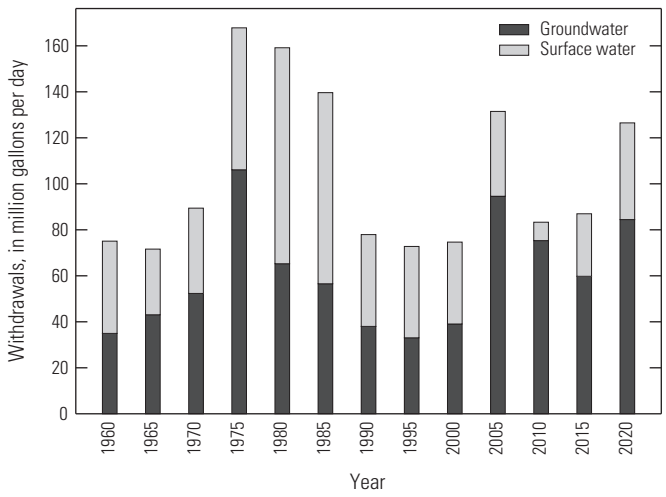
Water-use category	GW	SW	Total
Public supply	2.96	--	2.96
Rural domestic	0.16	--	0.16
Livestock	0.10	0.02	0.12
Rice irrigation	59.37	39.58	98.96
General irrigation	21.86	2.43	24.29
Total	**84.45**	**42.04**	**126.49**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020

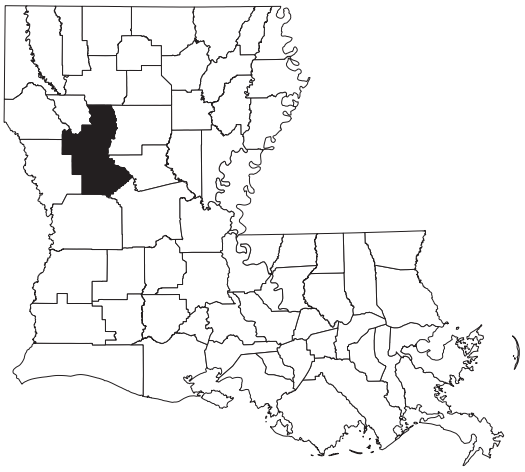


Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Bayou Bonne Idee Water System	0.11	--
Beekman Water System	0.12	--
Bonita Water System	0.08	--
Collinston Water System	0.06	--
Jones McGinty Water System	0.07	--
Mer Rouge Water System	0.13	--
Morehouse Central Water System	0.05	--
Morehouse W.W. District 1	0.11	--
Morehouse W.W. District 2	0.03	--
Oak Ridge Water System	0.01	--
Peoples Water Service Company	2.11	--
South Bonne Idee Water System	0.01	--
Ward 3 Water System	0.07	--

Natchitoches Parish

Population:	37,515
Population served by public supply:	31,362
Per capita withdrawals (gal/d):	828
Acres irrigated:	8,917
Hydroelectric power instream use (Mgal/d):	0



Withdrawals by water-use category (Mgal/d)

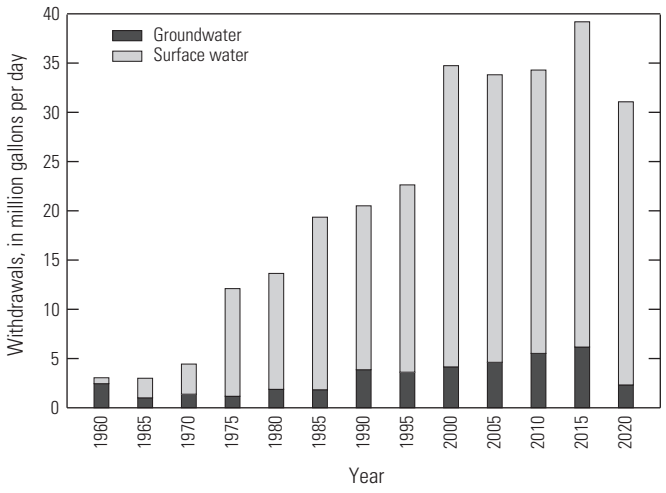
Water-use category	GW	SW	Total
Public supply	0.90	5.94	6.84
Industry	--	18.57	18.57
Rural domestic	0.49	--	0.49
Livestock	0.05	0.21	0.26
Rice irrigation	0.04	0.68	0.72
General irrigation	0.84	3.35	4.19
Total	**2.32**	**28.75**	**31.07**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
26 Paper products	--	18.57

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Bellwood Water System	0.04	--
Campti Water System	0.17	--
Chee Chee Bay Water System	0.03	--
Chestnut-Readhimer Water System	0.03	--
Clarence Water System	0.05	--
Creston Water System	0.04	--
Goldonna Water System	0.09	--
Hagewood Water System	0.04	--
Natchitoches Utility System	--	5.91
Natchitoches W.W. District 2	0.41	--
Sandy Point 480 Water System	--	0.02

Orleans Parish

Population:	383,997
Population served by public supply:	381,414
Per capita withdrawals (gal/d):	383
Acres irrigated:	1
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

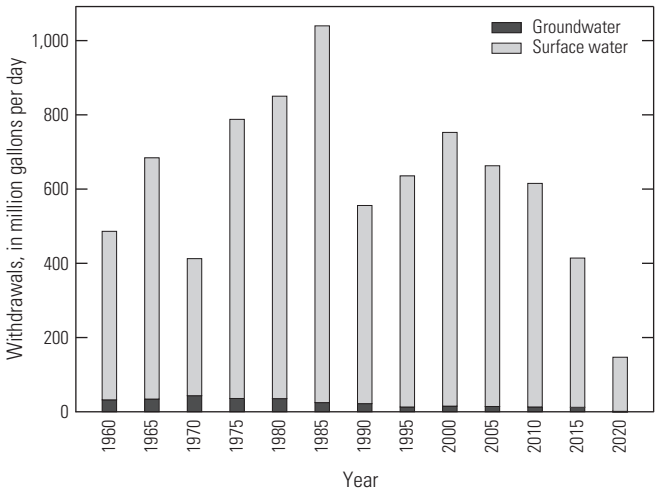
Water-use category	GW	SW	Total
Public supply	--	145.78	145.78
Industry	0.89	--	0.89
Power generation	--	--	--
Rural domestic	0.21	--	0.21
Livestock	0.00	0.01	0.01
General irrigation	0.05	0.04	0.08
Total	**1.15**	**145.82**	**146.97**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
28 Chemicals	0.89	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Sewage & Water Board of New Orleans	--	145.78

Ouachita Parish

Population:	160,368
Population served by public supply:	155,573
Per capita withdrawals (gal/d):	380
Acres irrigated:	14,789
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

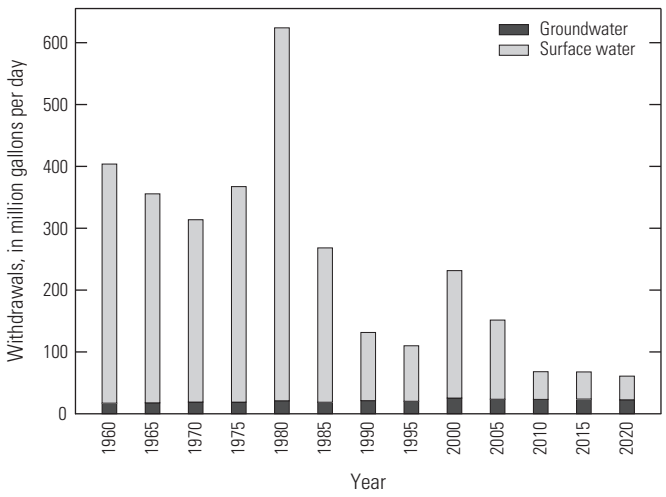
Water-use category	GW	SW	Total
Public supply	9.74	14.28	24.02
Industry	8.43	10.91	19.34
Power generation	--	2.38	2.38
Rural domestic	0.38	--	0.38
Livestock	--	0.06	0.06
Rice irrigation	3.62	6.72	10.34
General irrigation	0.43	3.88	4.31
Aquaculture	0.01	0.05	0.06
Total	**22.61**	**38.27**	**60.89**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
26 Paper products	8.43	9.02
28 Chemicals	--	1.89

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Inc.	Incorporated
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Cadeville Water District	0.32	--
Calhoun Water System, Inc.	0.08	--
Cheniere-Drew Water System	1.24	--
Frost Town Water System	0.08	--
Greater Ouachita Water Company	3.93	--
Hillside Park Subdivision Water System	0.09	--
Indian Village Water System	0.12	--
McClendon Community Water Well	0.02	--
Monroe Water System	--	14.28
Prairie Road Water System	0.21	--
Southwest Ouachita Waterworks	0.86	--
West Monroe Water System	2.71	--
Western Utilities, Inc.	0.07	--

Plaquemines Parish

Population:	23,515
Population served by public supply:	22,901
Per capita withdrawals (gal/d):	2,632
Acres irrigated:	1
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

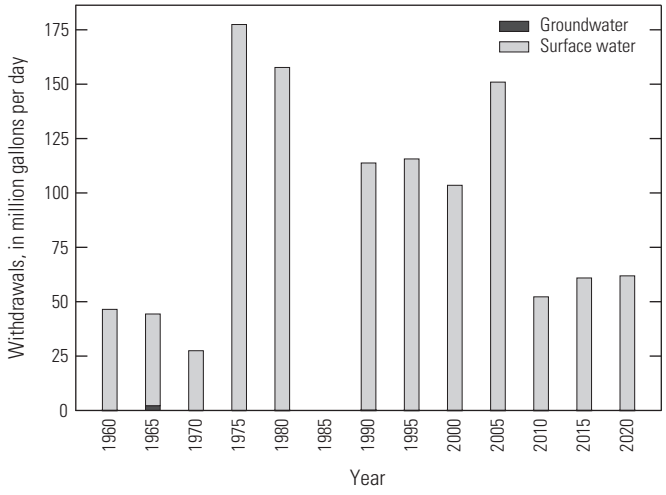
Water-use category	GW	SW	Total
Public supply	--	6.13	6.13
Industry	--	55.68	55.68
Rural domestic	0.05	--	0.05
Livestock	--	0.02	0.02
General irrigation	--	0.00	0.00
Total	**0.05**	**61.84**	**61.89**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
28	Chemicals	--	23.38
29	Petroleum refining	--	32.31

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Plaquemines Parish Water Works	--	6.13

Pointe Coupee Parish

Population:	20,758
Population served by public supply:	17,928
Per capita withdrawals (gal/d):	11,622
Acres irrigated:	17,595
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

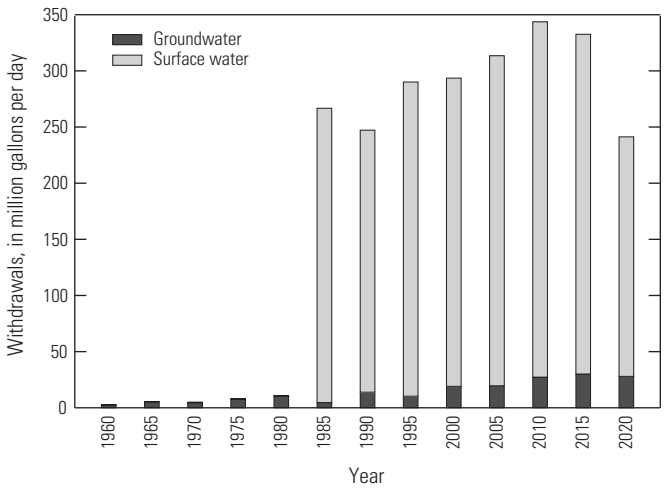
Water-use category	GW	SW	Total
Public supply	4.32	--	4.32
Industry	6.51	--	6.51
Power generation	1.10	212.17	213.27
Rural domestic	0.23	--	0.23
Livestock	0.12	0.08	0.20
Rice irrigation	4.40	--	4.40
General irrigation	7.14	--	7.14
Aquaculture	4.15	1.04	5.19
Total	**27.96**	**213.29**	**241.25**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
20 Food products	6.26	--
32 Glass, clay, and concrete	0.25	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Inc.	Incorporated
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
False River Water Company	0.35	--
Fordoche Water System	0.16	--
Innis Water Corporation, Inc.	0.31	--
Livonia Water System	0.19	--
M & S Water Supply	0.25	--
Morganza Water System	0.05	--
New Roads Water System	1.58	--
Pointe Coupee Water District Number 1	0.45	--
Pointe Coupee Water District Number 2 - Batchelor	0.54	--
Pointe Coupee Water District Number 2 - Highway 10	0.23	--
Torbert-Frisco Water System	0.19	--

Rapides Parish

Population:	130,023
Population served by public supply:	124,439
Per capita withdrawals (gal/d):	6,392
Acres irrigated:	25,292
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

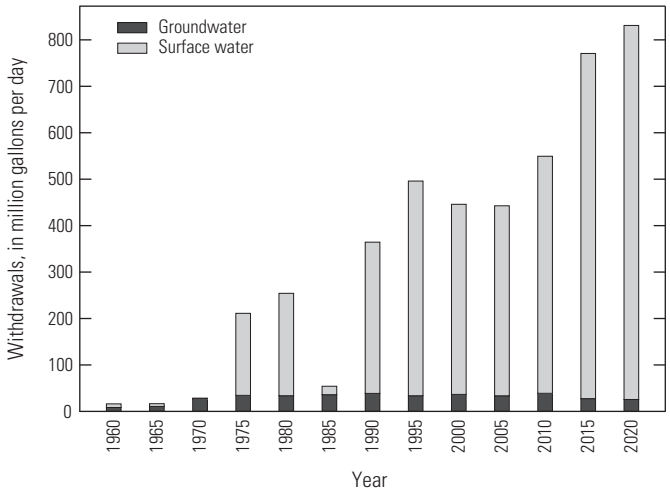
Water-use category	GW	SW	Total
Public supply	17.83	--	17.83
Industry	0.00	--	0.00
Power generation	0.57	782.60	783.17
Rural domestic	0.45	--	0.45
Livestock	0.03	0.14	0.17
Rice irrigation	3.45	19.57	23.02
General irrigation	3.31	3.10	6.41
Total	**25.64**	**805.41**	**831.05**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Alexandria Water System	9.69	--
Avoyelles W.W. District No. 1	0.16	--
Avoyelles Ward 1 Water System	0.21	--
Boyce Water System	0.17	--
Buckeye Water District 50	0.76	--
Bunkie Water System	0.68	--
Cheneyville Water System	0.11	--
Elmer-Melder-Cal Water System	0.24	--
Forest Hill Water System	0.38	--
Gardner Community Water System	0.28	--
Glenmora Town Water System	0.15	--
Hammock Water System	0.05	--
Hineston Water System	0.07	--
Kolin-Ruby-Wise Water District	0.38	--
Lecompte Water System	0.16	--
Lena Water System	0.16	--
McNary Water System	0.02	--
Pineville Water System	2.47	--
Rapides Island Water Association	0.39	--
Rapides Parish W.W. District 3	0.95	--
Sieper Area Water System	0.07	--
Ward 6 Water Association	0.11	--

Red River Parish

Population:	7,620
Population served by public supply:	5,348
Per capita withdrawals (gal/d):	479
Acres irrigated:	3,624
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

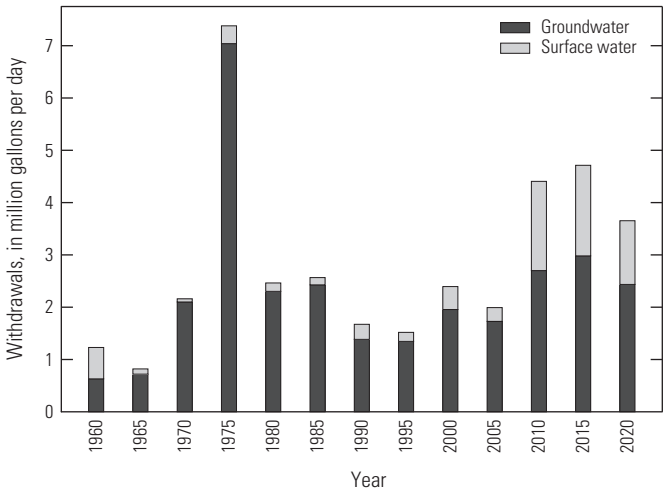
Water-use category	GW	SW	Total
Public supply	0.75	0.36	1.11
Industry	--	0.42	0.42
Rural domestic	0.18	--	0.18
Livestock	0.05	0.08	0.13
General irrigation	1.45	0.36	1.82
Total	**2.44**	**1.22**	**3.65**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
28 Chemicals	--	0.42

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Coushatta Water System	0.41	--
East Cross Water System	0.02	--
Edgefield Village Water System	0.02	--
Fairview Union Water System	--	0.36
Halfway-Carroll Water System	0.05	--
Hall Summit Water System	0.03	--
Hickory Grove Water System	0.05	--
Martin Water System	0.13	--
Social Springs Water System	0.02	--

Richland Parish

Population:	20,043
Population served by public supply:	14,271
Per capita withdrawals (gal/d):	1,964
Acres irrigated:	55,679
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

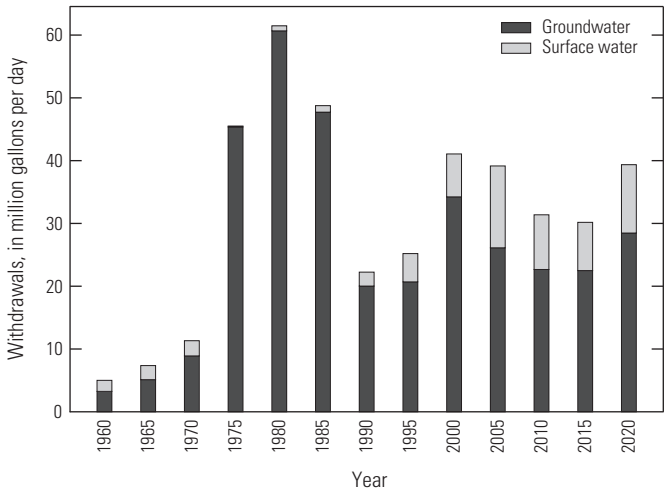
Water-use category	GW	SW	Total
Public supply	5.05	--	5.05
Rural domestic	0.46	--	0.46
Livestock	0.05	0.05	0.10
Rice irrigation	12.07	--	12.07
General irrigation	10.84	10.84	21.67
Total	**28.47**	**10.89**	**39.36**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
--	--	--

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Inc.	Incorporated
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020

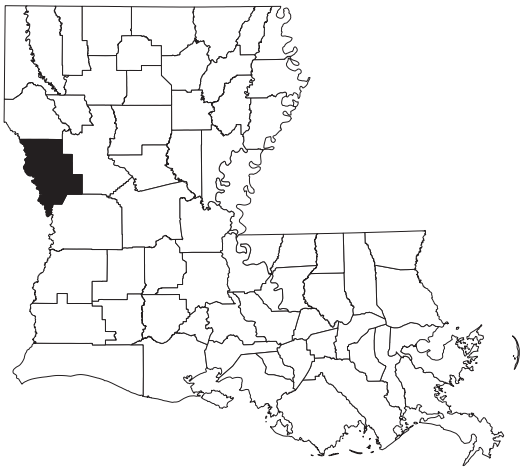


Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Archibald Water System	0.38	--
Delhi Water System	1.64	--
Liddieville Water System	0.11	--
Mangham Water System	0.08	--
North Franklin Water Works	0.41	--
Rayville Water System	0.48	--
River Road Water System	0.30	--
Start Water System, Inc.	0.23	--
Walnut Bayou Water Association	0.32	--
Winnsboro Water System	1.01	--

Sabine Parish

Population:	22,155
Population served by public supply:	10,509
Per capita withdrawals (gal/d):	171
Acres irrigated:	1
Hydroelectric power instream use (Mgal/d):	1,855



Withdrawals by water-use category (Mgal/d)

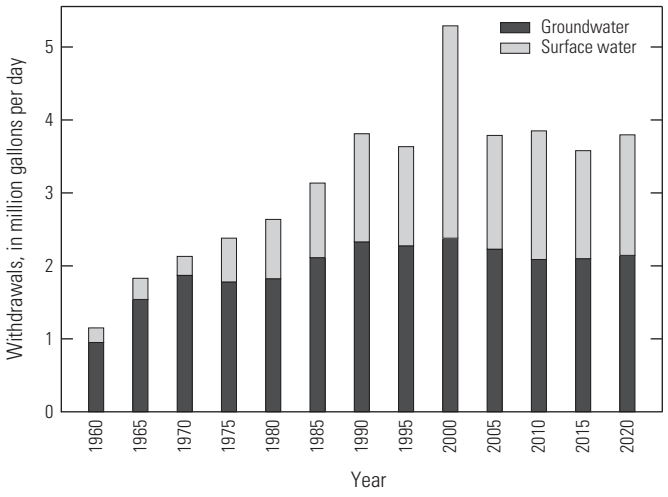
Water-use category	GW	SW	Total
Public supply	1.21	1.58	2.79
Industry	--	0.06	0.06
Rural domestic	0.93	--	0.93
Livestock	0.00	0.01	0.01
General irrigation	--	0.00	0.00
Total	**2.14**	**1.65**	**3.80**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
24 Lumber	--	0.06

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Inc.	Incorporated
Mgal/d	million gallons per day
No.	number
SW	surface water
W.W.	Waterworks
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Belmont W.W. Inc.	0.33	--
Converse Water System	0.04	--
Ebarb W.W. District No. 1	--	0.46
Fisher Water Department	0.05	--
Many Water System	0.43	0.34
Noble Water System	0.04	--
Pendleton Water Association	--	0.20
Pleasant Hill Water System	0.06	--
S. Toledo Bend W.W. District	--	0.58
Union Springs Water System	0.03	--
Zwolle Water Department	0.24	--

St. Bernard Parish

Population:	43,764
Population served by public supply:	43,631
Per capita withdrawals (gal/d):	5,178
Acres irrigated:	0
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

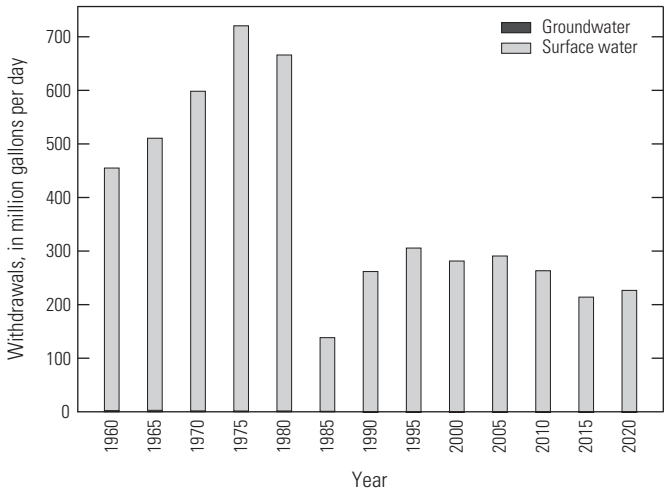
Water-use category	GW	SW	Total
Public supply	--	8.07	8.07
Industry	--	218.53	218.53
Rural domestic	0.01	--	0.01
Livestock	0.01	--	0.01
Total	**0.02**	**226.60**	**226.62**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
20	Food products	--	15.42
29	Petroleum refining	--	203.12

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
St. Bernard Parish Water and Sewerage Commission	--	8.07

St. Charles Parish

Population:	52,549
Population served by public supply:	52,334
Per capita withdrawals (gal/d):	46,715
Acres irrigated:	83
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

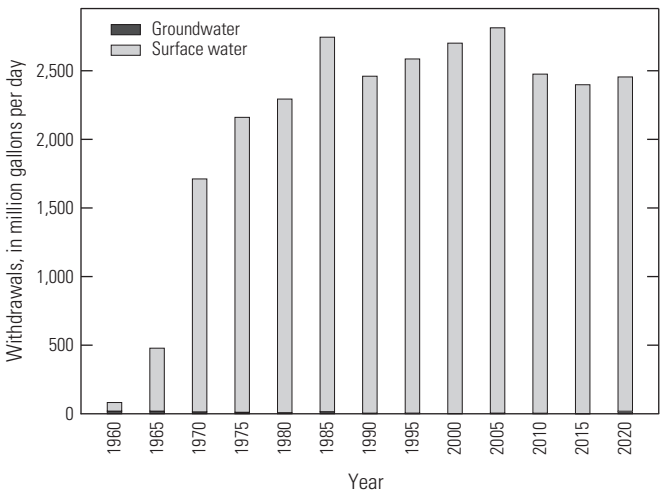
Water-use category	GW	SW	Total
Public supply	--	8.33	8.33
Industry	18.68	553.31	571.99
Power generation	--	1,874.42	1,874.42
Rural domestic	0.02	--	0.02
Livestock	0.00	0.02	0.03
General irrigation	0.02	0.03	0.05
Total	**18.72**	**2,436.12**	**2,454.84**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification		GW	SW
28	Chemicals	0.07	542.85
29	Petroleum refining	18.61	10.46

Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
St. Charles Waterworks District 1	--	4.31
St. Charles Waterworks District 2	--	4.02

St. Helena Parish

Population:	10,920
Population served by public supply:	4,378
Per capita withdrawals (gal/d):	145
Acres irrigated:	0
Hydroelectric power instream use (Mgal/d):	0

Withdrawals by water-use category (Mgal/d)

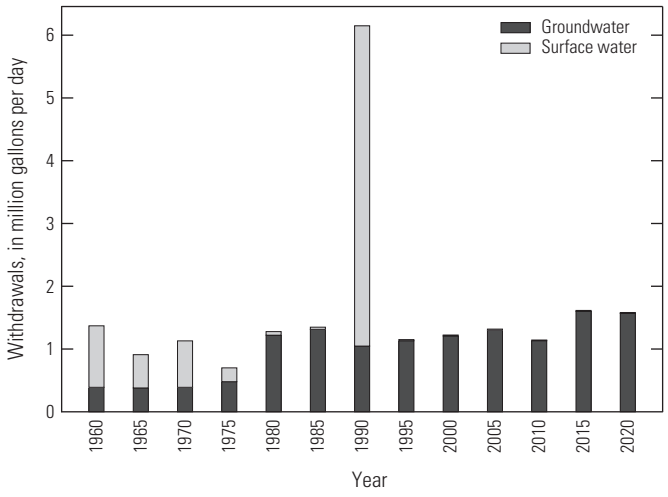
Water-use category	GW	SW	Total
Public supply	0.88	--	0.88
Industry	0.03	--	0.03
Rural domestic	0.52	--	0.52
Livestock	0.14	0.02	0.15
Total	**1.57**	**0.02**	**1.58**

Withdrawals by major industrial group (Mgal/d)

Standard Industrial Classification	GW	SW
20 Food products	0.03	--

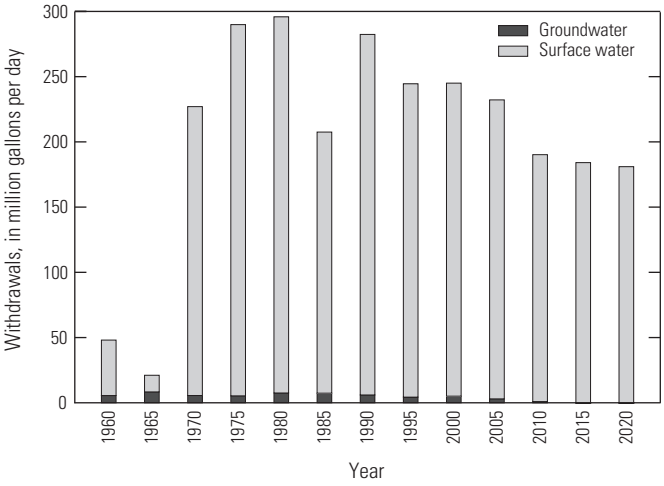
Abbreviations and symbol

gal/d	gallon per day
GW	groundwater
Mgal/d	million gallons per day
No.	number
SW	surface water
--	no withdrawals in 2020



Withdrawals by major public supplier (Mgal/d)

Public supplier	GW	SW
Greensburg Water System	0.13	--
Montpelier Water System	0.02	--
St. Helena Water Works District No. 2	0.62	--
St. Helena Water Works District No. 2	0.10	--

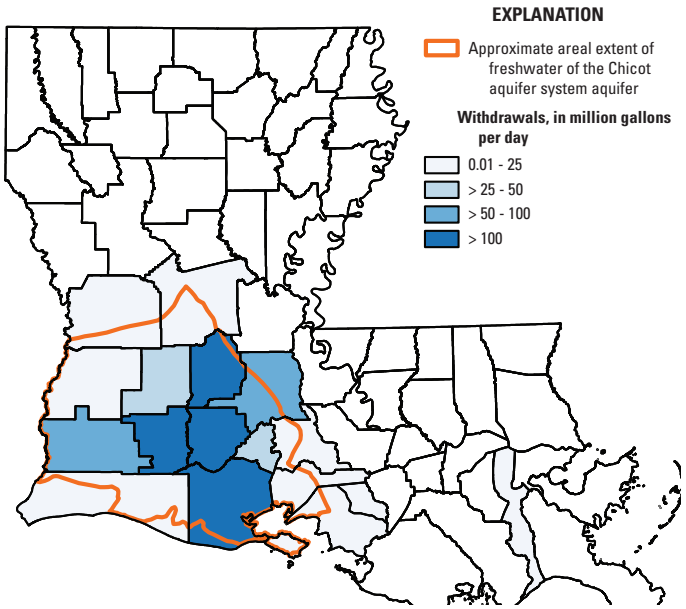

Groundwater
Surface water
Withdrawals, in million gallons per day
300
250
200
150
100
50
0
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Year

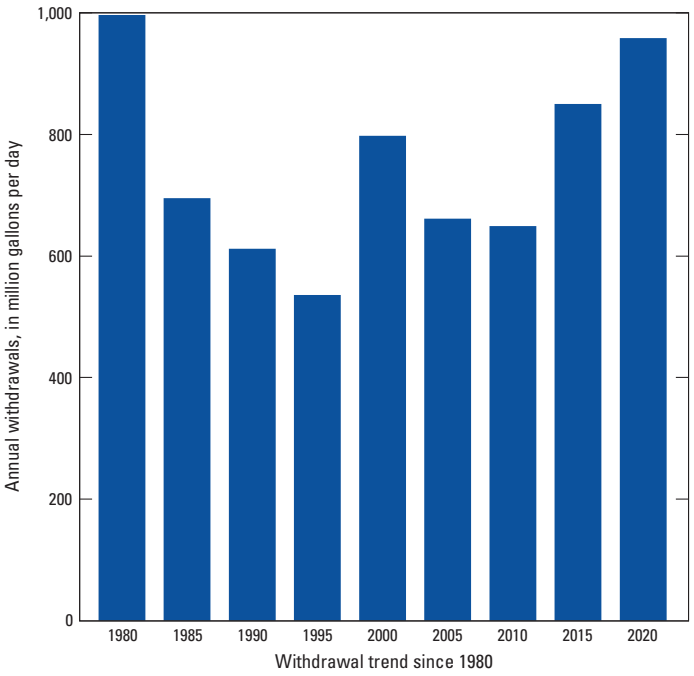
Chicot Aquifer System

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	93.38
Industry	55.14
Power generation	16.10
Rural domestic	11.66
Livestock	1.08
Rice irrigation	440.47
General irrigation	9.03
Aquaculture	331.36
Total	**958.22**

Abbreviation and symbol

Mgal/d million gallons per day





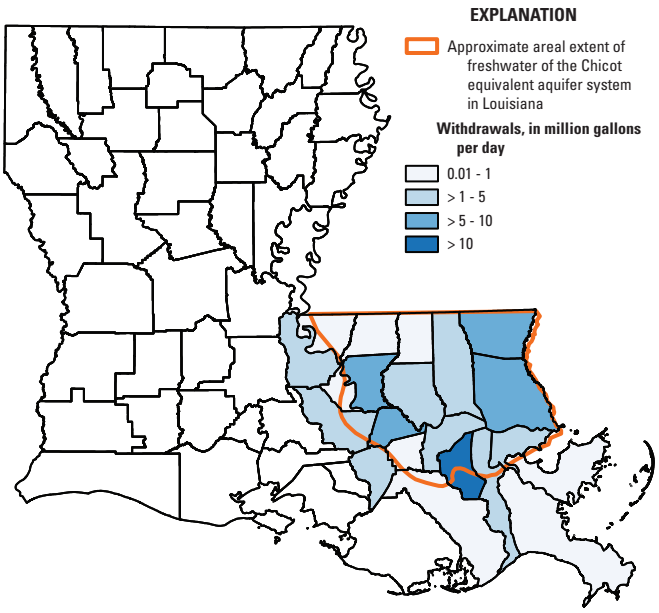
Withdrawals by parish	
Parish	**Mgal/d**
Acadia	207.46
Allen	45.02
Beauregard	14.44
Calcasieu	89.88
Cameron	15.75
Evangeline	135.46
Iberia	17.85
Jefferson Davis	171.79
Lafayette	35.55
Rapides	1.48
St. Landry	70.73
St. Martin	6.07
St. Mary	4.04
Vermilion	142.18
Vernon	0.51

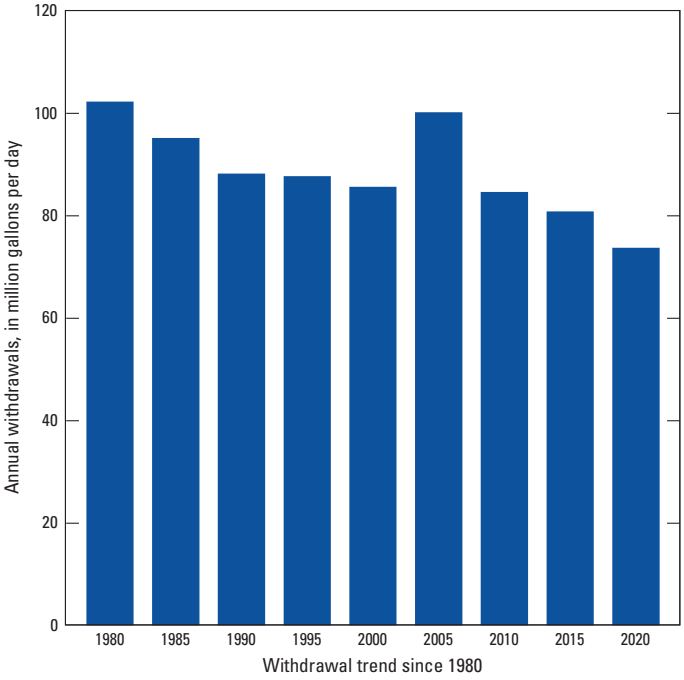
Chicot Equivalent Aquifer System (Southeastern Louisiana)

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	12.03
Industry	39.75
Power generation	4.80
Rural domestic	14.95
Livestock	0.24
Rice irrigation	--
General irrigation	0.68
Aquaculture	1.32
Total	**73.77**

Abbreviation and symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020





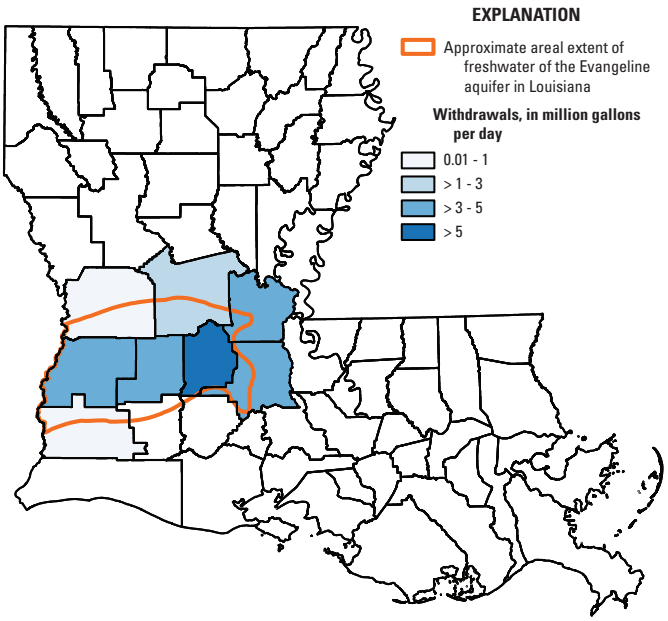
Withdrawals by parish	
Parish	**Mgal/d**
Ascension	6.78
Assumption	1.43
East Baton Rouge	9.74
East Feliciana	0.21
Iberville	4.75
Jefferson	4.90
Lafourche	0.93
Livingston	2.72
Orleans	1.15
Plaquemines	0.04
Pointe Coupee	2.50
St. Bernard	0.02
St. Charles	18.72
St. Helena	0.83
St. James	0.02
St. John the Baptist	2.91
St. Tammany	6.40
Tangipahoa	3.96
Washington	5.74
West Baton Rouge	0.01
West Feliciana	0.02

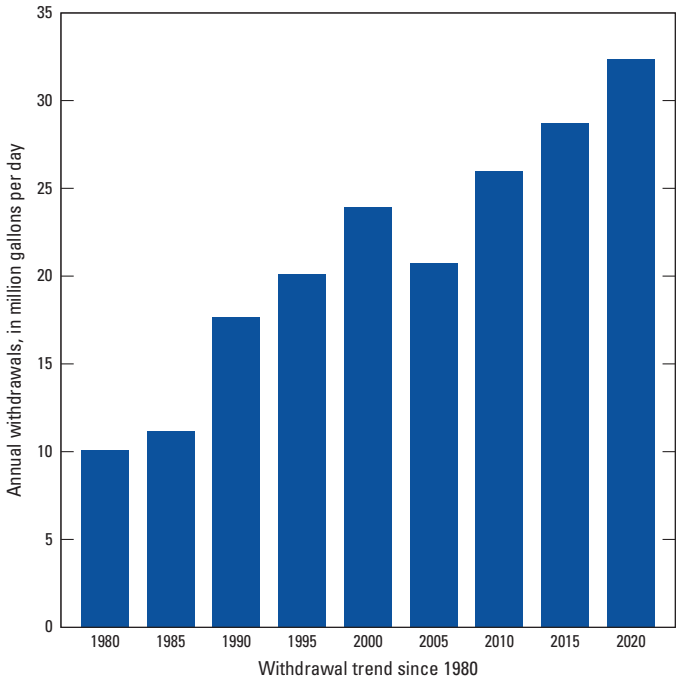
Evangeline Aquifer

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	18.86
Industry	5.93
Power generation	--
Rural domestic	0.15
Livestock	0.09
Rice irrigation	0.48
General irrigation	0.43
Aquaculture	6.43
Total	**32.36**

Abbreviation and symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020





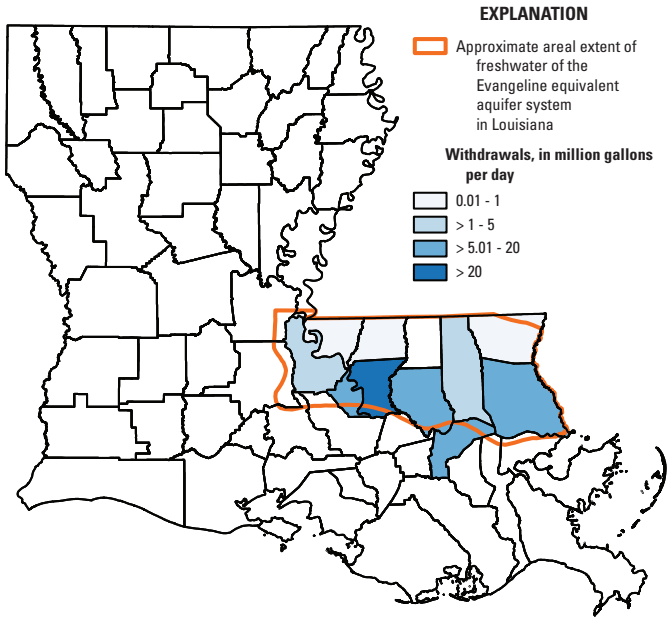
Withdrawals by parish	
Parish	**Mgal/d**
Allen	4.24
Avoyelles	3.68
Beauregard	4.32
Calcasieu	0.77
Evangeline	12.13
Rapides	2.81
St. Landry	4.08
Vernon	0.32

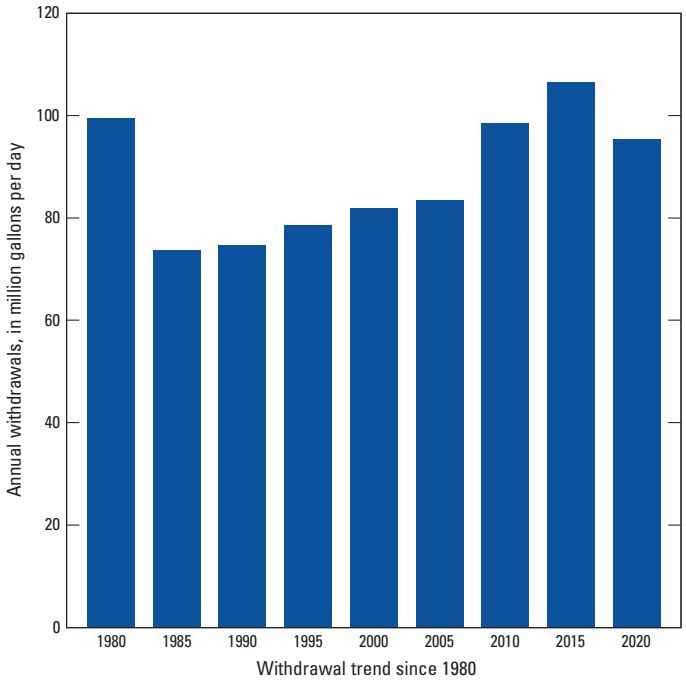
Evangeline Equivalent Aquifer System (Southeastern Louisiana)

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	76.05
Industry	17.32
Power generation	1.10
Rural domestic	0.54
Livestock	0.23
Rice irrigation	--
General irrigation	0.03
Aquaculture	0.16
Total	**95.43**

Abbreviation and symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020





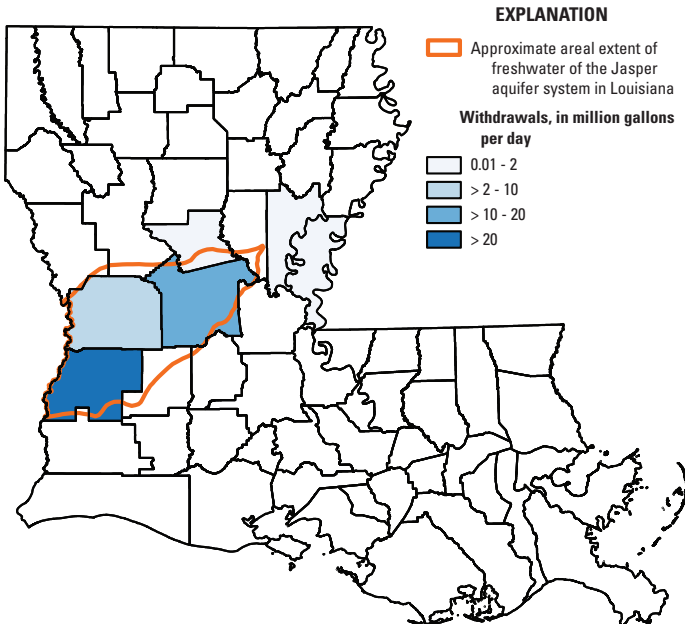
Withdrawals by parish	
Parish	**Mgal/d**
East Baton Rouge	50.55
East Feliciana	0.27
Livingston	5.35
Pointe Coupee	2.67
St. John the Baptist	9.66
St. Tammany	16.12
Tangipahoa	3.34
Washington	0.09
West Baton Rouge	7.35
West Feliciana	0.03

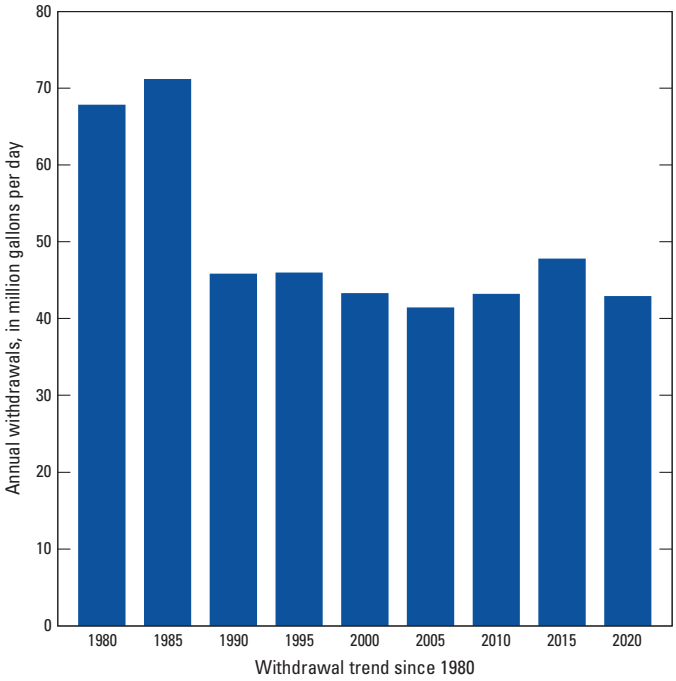
Jasper Aquifer System

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	18.84
Industry	22.33
Power generation	0.57
Rural domestic	1.10
Livestock	0.04
Rice irrigation	--
General irrigation	--
Aquaculture	0.04
Total	**42.91**

Abbreviation and symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020





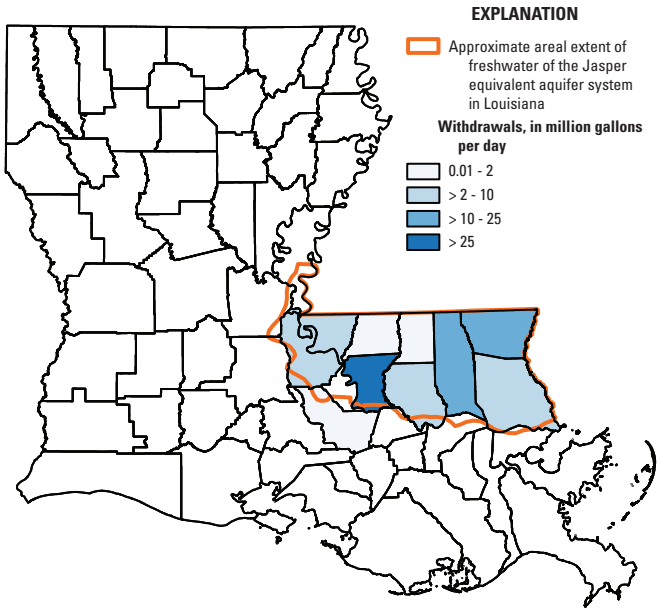
Withdrawals by parish	
Parish	**Mgal/d**
Beauregard	22.35
Catahoula	0.06
Concordia	1.38
Grant	0.43
Rapides	12.37
Vernon	6.31

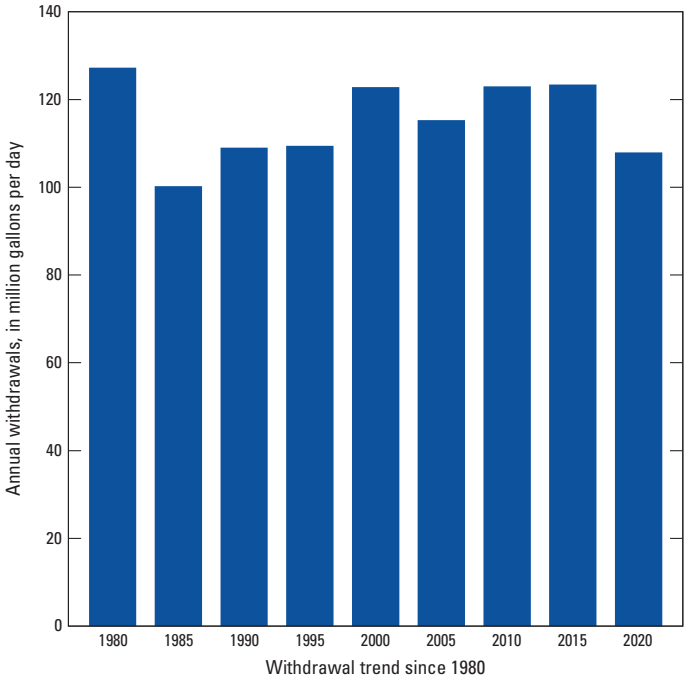
Jasper Equivalent Aquifer System (Southeastern Louisiana)

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	67.33
Industry	32.53
Power generation	7.93
Rural domestic	0.08
Livestock	0.06
Rice irrigation	--
General irrigation	--
Aquaculture	0.09
Total	**108.01**

Abbreviation and symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020





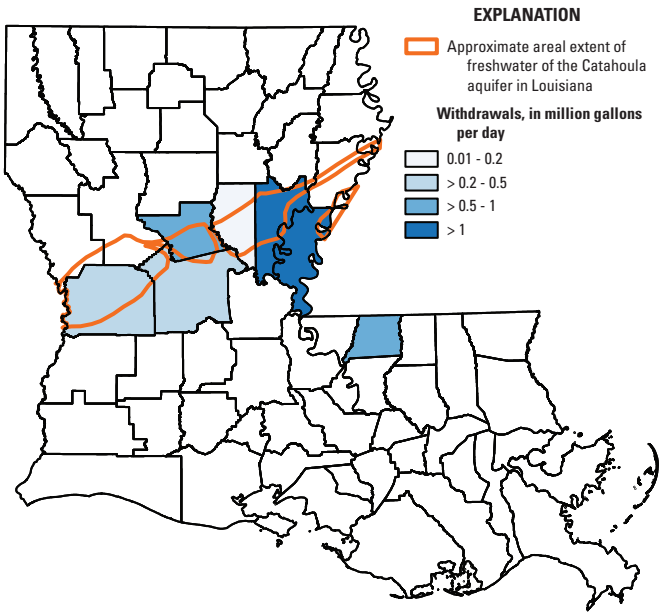
Withdrawals by parish	
Parish	**Mgal/d**
East Baton Rouge	58.54
East Feliciana	1.98
Iberville	0.61
Livingston	7.90
Pointe Coupee	3.80
St. Helena	0.59
St. Tammany	4.08
Tangipahoa	11.90
Washington	14.39
West Feliciana	4.22

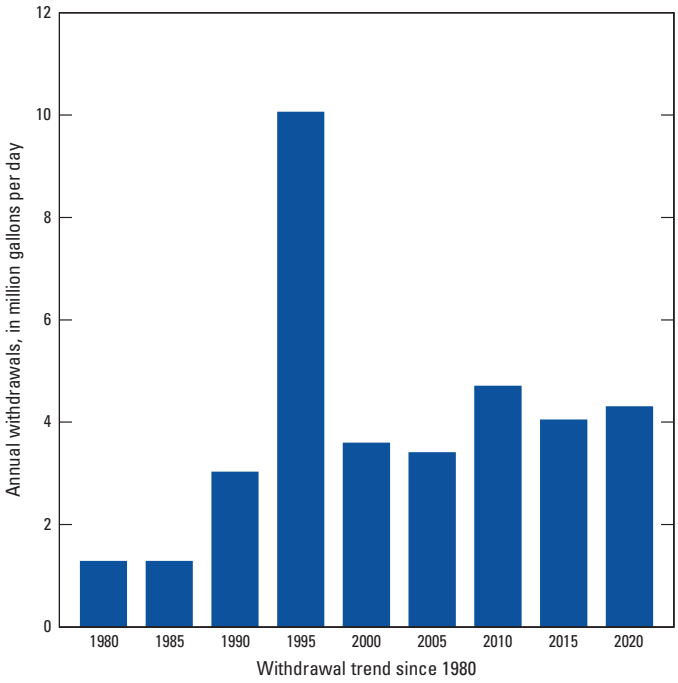
Catahoula Aquifer

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	4.14
Industry	0.06
Power generation	--
Rural domestic	0.08
Livestock	0.02
Rice irrigation	--
General irrigation	--
Aquaculture	--
Total	**4.31**

Abbreviation and symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020





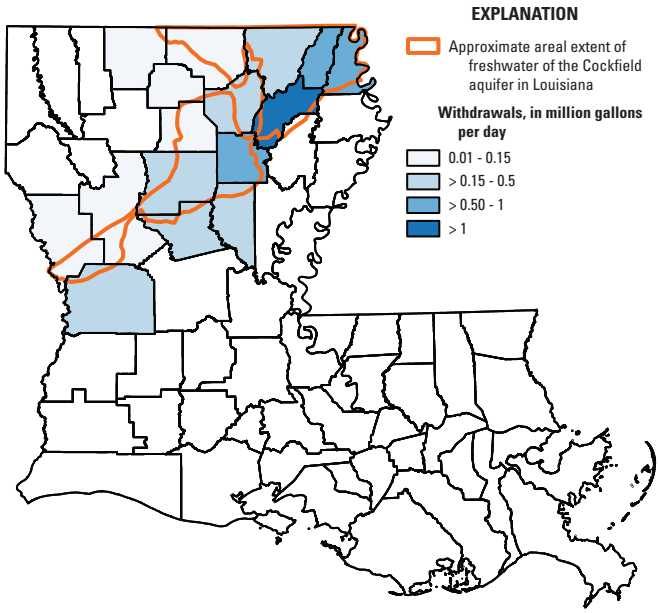
Withdrawals by parish	
Parish	**Mgal/d**
Catahoula	1.15
Concordia	1.18
East Feliciana	0.55
Grant	0.77
LaSalle	0.15
Rapides	0.29
Vernon	0.23

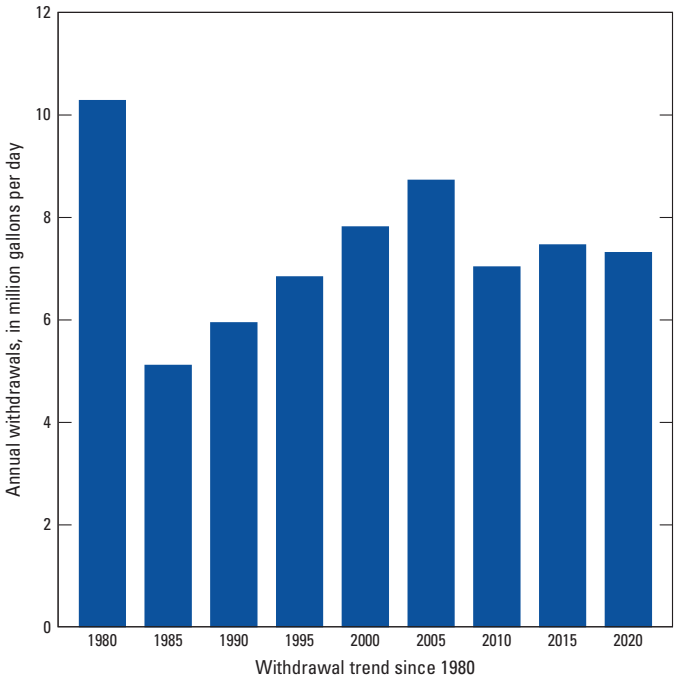
Cockfield Aquifer

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	6.52
Industry	--
Power generation	--
Rural domestic	0.48
Livestock	0.02
Rice irrigation	0.27
General irrigation	0.04
Aquaculture	0.00
Total	**7.32**

Abbreviation and symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020





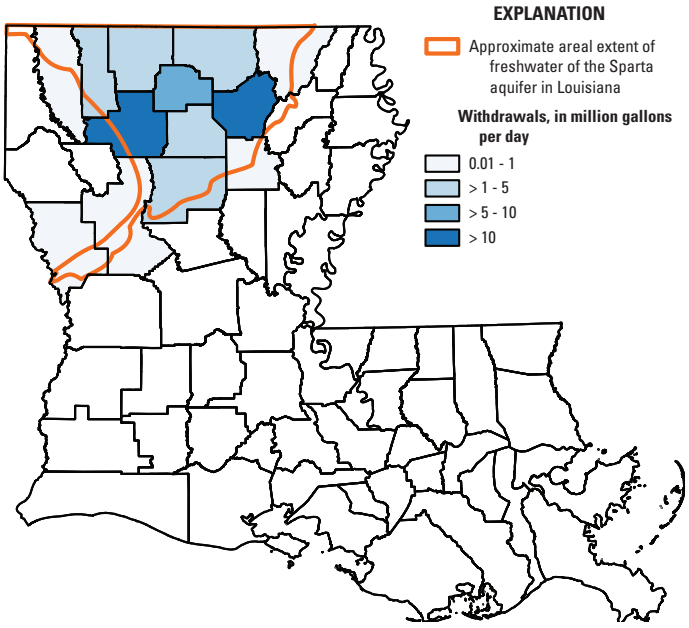
Withdrawals by parish	
Parish	**Mgal/d**
Caldwell	0.95
Claiborne	0.02
East Carroll	0.83
Grant	0.34
Jackson	0.08
LaSalle	0.48
Lincoln	0.04
Morehouse	0.41
Natchitoches	0.04
Ouachita	0.33
Richland	2.50
Sabine	0.09
Union	0.06
Vernon	0.17
West Carroll	0.84
Winn	0.17

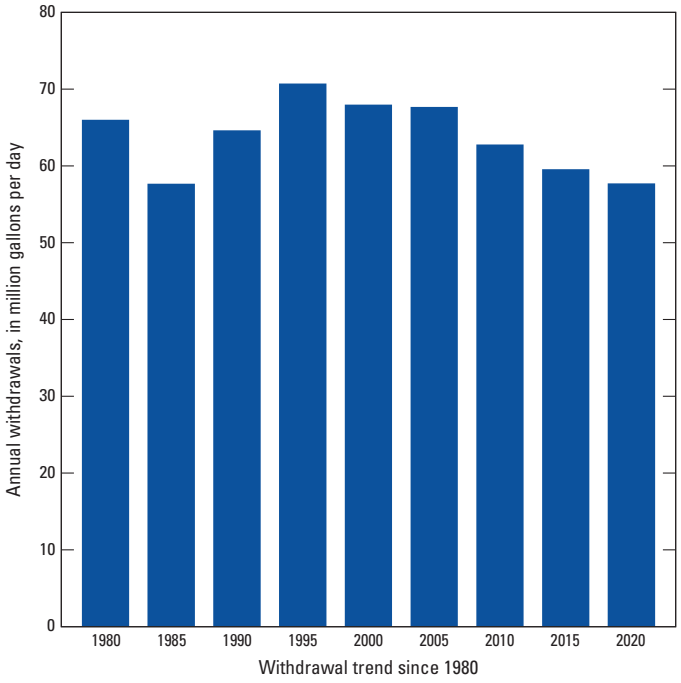
Sparta Aquifer

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	32.67
Industry	22.37
Power generation	0.00
Rural domestic	1.33
Livestock	0.14
Rice irrigation	1.05
General irrigation	0.17
Aquaculture	--
Total	**57.73**

Abbreviation and symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020





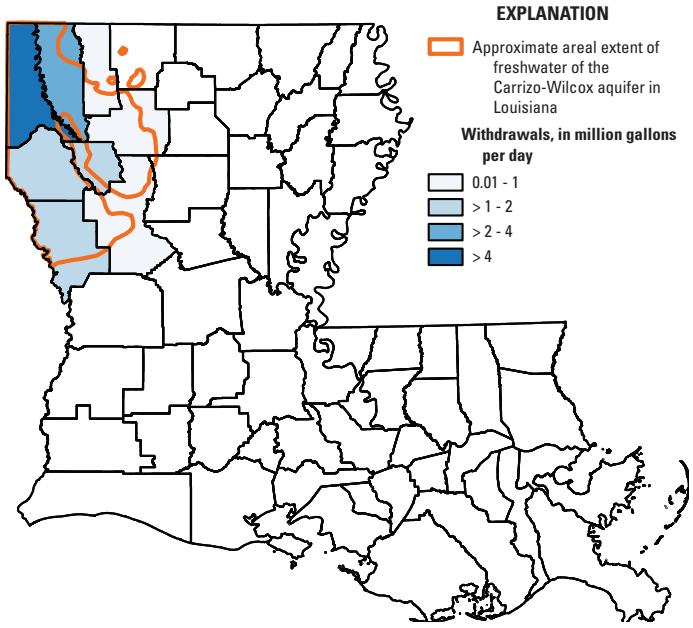
Withdrawals by parish	
Parish	**Mgal/d**
Bienville	11.77
Bossier	0.17
Caldwell	0.02
Claiborne	1.91
Jackson	4.57
Lincoln	6.98
Morehouse	0.08
Natchitoches	0.56
Ouachita	19.51
Sabine	0.15
Union	4.72
Webster	4.62
Winn	2.69

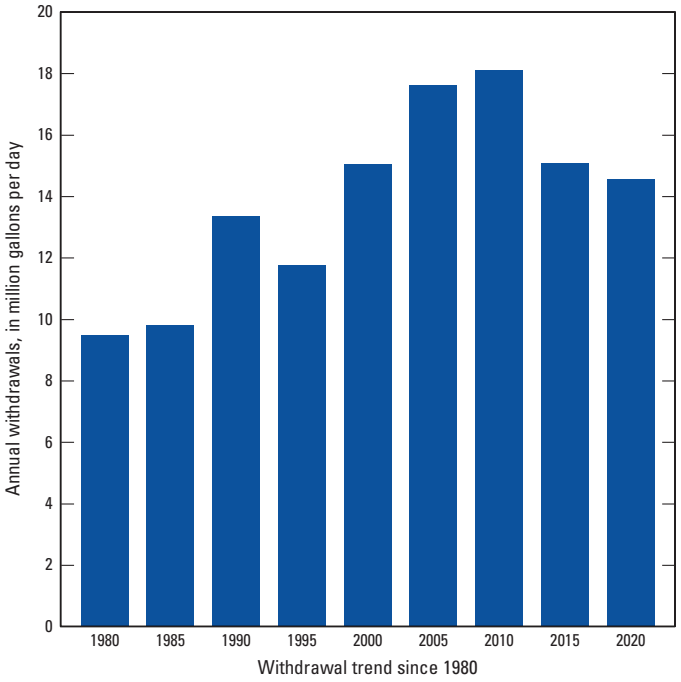
Carrizo-Wilcox Aquifer

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	7.51
Industry	0.00
Power generation	--
Rural domestic	4.52
Livestock	0.22
Rice irrigation	0.01
General irrigation	2.29
Aquaculture	--
Total	**14.56**

Abbreviation and symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020





Withdrawals by parish	
Parish	**Mgal/d**
Bienville	0.74
Bossier	2.67
Caddo	4.60
DeSoto	1.81
Natchitoches	0.75
Red River	1.10
Sabine	1.91
Webster	0.97

Appendix Reference Cited

Robinson, A.L., 2025, Water withdrawals in Louisiana, 2020: U.S. Geological Survey data release, https://doi.org/10.5066/P13G8OMQ.

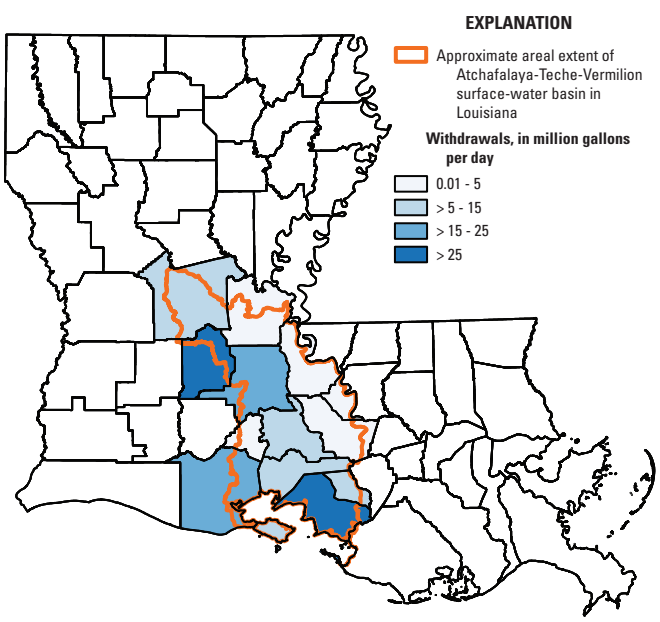
Appendix 3. Water Use by Surface-Water Basin

The one-page summaries for surface-water withdrawals for each of the 10 major surface-water basins in Louisiana are presented in appendix 3. Each basin summary includes a table that lists surface-water withdrawals by category of use, by parish, and by major waterbodies within the basin. In these tables, withdrawals that are less than 0.005 million gallons per day but greater than 0 are shown as 0.00. A location map depicts the surface extent of the basin within the State and the associated parishes and withdrawals (modified from Garrison and Covay, 1994). The data presented in this appendix are available in an associated data release (Robinson, 2025).

Some tables of withdrawals from major waterbodies are incomplete because withdrawals for rice irrigation, general irrigation, livestock, and agriculture were estimated by using data that were not site specific. Part of the surface-water withdrawals for these categories were recorded as miscellaneous streams, and some waterbodies that may have had substantial withdrawals may not have been included in these tables. Consequently, the sum of withdrawals from the major waterbodies could be less than the total withdrawals listed in the tables of withdrawals by category because of withdrawals attributed to miscellaneous streams.

Atchafalaya-Teche-Vermilion Surface-Water Basin

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	6.56
Industry	5.88
Power generation	287.41
Rural domestic	--
Livestock	0.32
Rice irrigation	48.71
General irrigation	6.20
Aquaculture	26.44
Total	**381.52**



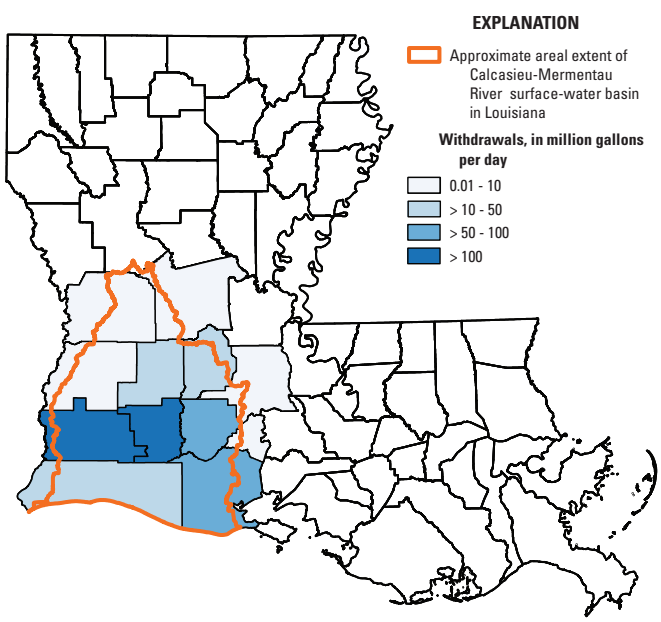
Symbol	
Mgal/d	million gallons per day
--	no withdrawals in 2020

Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Alligator Bayou	0.78
Atchafalaya River	6.58
Bayou Boeuf	1.49
Bayou Cocodrie	182.64
Bayou Teche	17.82
Charenton Canal	107.85
Intracoastal Waterway	4.70
Lower Grand River	0.75
Mississippi River	0.36
Six Mile Lake	1.18
Vermilion River	19.48

Withdrawals by parish	
Parish	**Mgal/d**
Avoyelles	3.76
Evangeline	185.30
Iberia	7.43
Iberville	2.02
Lafayette	1.19
Pointe Coupee	1.01
Rapides	11.13
St. Landry	18.24
St. Martin	11.26
St. Mary	115.95
Vermilion	23.28
West Baton Rouge	0.97

Calcasieu-Mermentau River Surface-Water Basin

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	--
Industry	95.12
Power generation	6.34
Rural domestic	--
Livestock	0.70
Rice irrigation	183.38
General irrigation	2.50
Aquaculture	133.44
Total	**421.48**



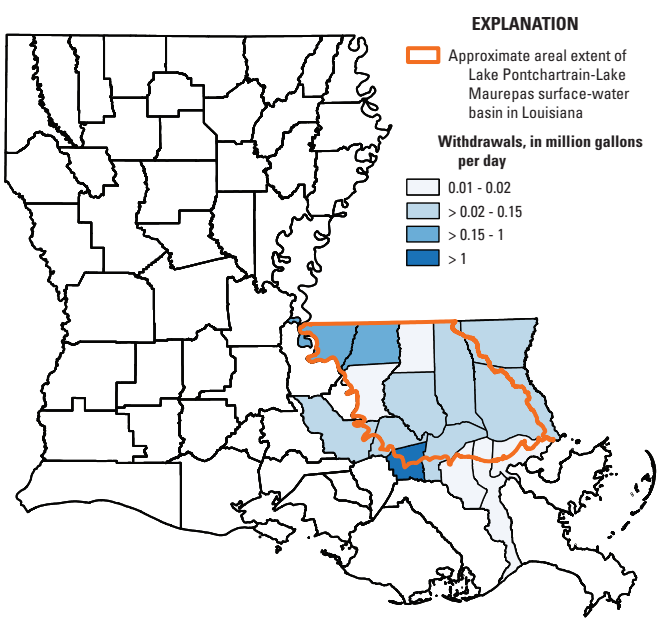
Symbol	
Mgal/d	million gallons per day
--	no withdrawals in 2020

Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Bayou Blue	3.40
Bayou Boeuf	3.50
Bayou Lacassine	0.54
Bayou Mallet	2.43
Bayou Queue de Tortue	0.22
Calcasieu River	65.31
English Bayou	0.47
Mermentau River	204.51
Sabine River Diversion Canal	46.62
Whisky Chitto	1.51

Withdrawals by parish	
Parish	**Mgal/d**
Acadia	67.96
Allen	13.11
Beauregard	0.12
Calcasieu	105.93
Cameron	27.34
Evangeline	12.10
Jefferson Davis	128.27
Lafayette	0.22
Rapides	4.09
St. Landry	3.44
Vermilion	58.87
Vernon	0.05

Lake Pontchartrain-Lake Maurepas Surface-Water Basin

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	--
Industry	2.96
Power generation	--
Rural domestic	--
Livestock	0.53
Rice irrigation	--
General irrigation	0.52
Aquaculture	1.78
Total	**5.80**



Symbol	
Mgal/d	million gallons per day
--	no withdrawals in 2020

Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Amite	0.04
Lake Maurepas	0.15
Mississippi River	2.89
Tchefuncte River	0.08

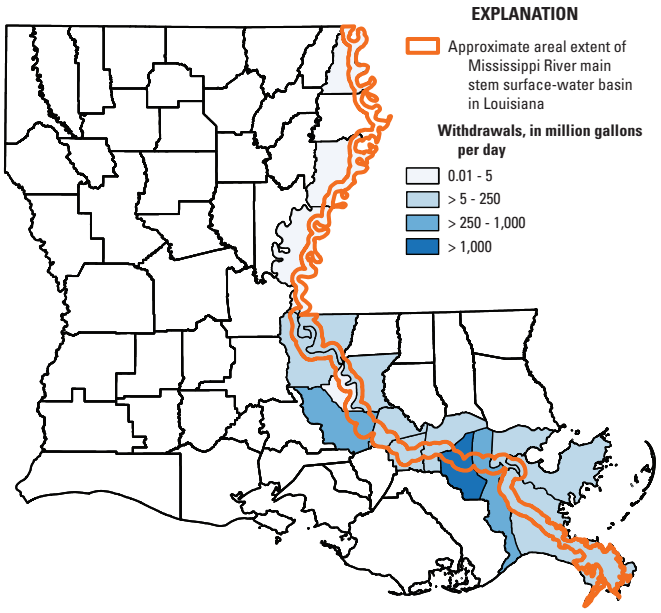
Withdrawals by parish	
Parish	**Mgal/d**
Ascension	0.02
East Baton Rouge	0.01
East Feliciana	0.25
Iberville	0.09
Jefferson	0.00
Livingston	0.05
Orleans	0.00
St. Charles	0.00
St. Helena	0.02
St. James	4.76
St. John the Baptist	0.03
St. Tammany	0.12
Tangipahoa	0.14
Washington	0.02
West Feliciana	0.30

Mississippi River Main Stem

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	240.83
Industry	1,716.28
Power generation	2,918.79
Rural domestic	--
Livestock	0.03
Rice irrigation	1.28
General irrigation	1.41
Aquaculture	0.39
Total	**4,878.99**

Symbol

Mgal/d	million gallons per day
--	no withdrawals in 2020

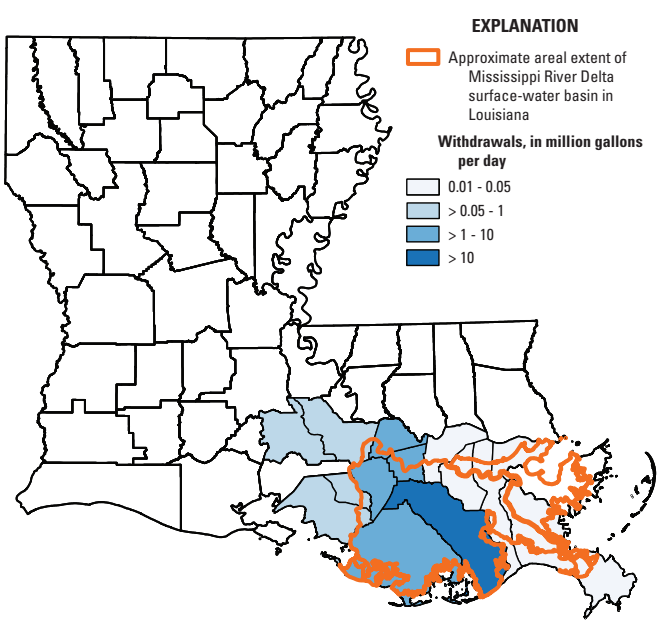


Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Marango Bend	0.67
Mississippi River	4,877.57
Tante Phine Pass	0.05

Withdrawals by parish	
Parish	**Mgal/d**
Ascension	182.92
Concordia	4.95
East Baton Rouge	17.14
East Carroll	0.90
Iberville	440.20
Jefferson	881.84
Orleans	145.78
Plaquemines	61.82
Pointe Coupee	212.28
St. Bernard	226.60
St. Charles	2,436.06
St. James	173.90
St. John the Baptist	59.42
Tensas	0.47
West Baton Rouge	0.16
West Feliciana	34.54

Mississippi River Delta Surface-Water Basin

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	35.87
Industry	6.66
Power generation	--
Rural domestic	--
Livestock	0.18
Rice irrigation	--
General irrigation	0.52
Aquaculture	15.07
Total	**58.30**



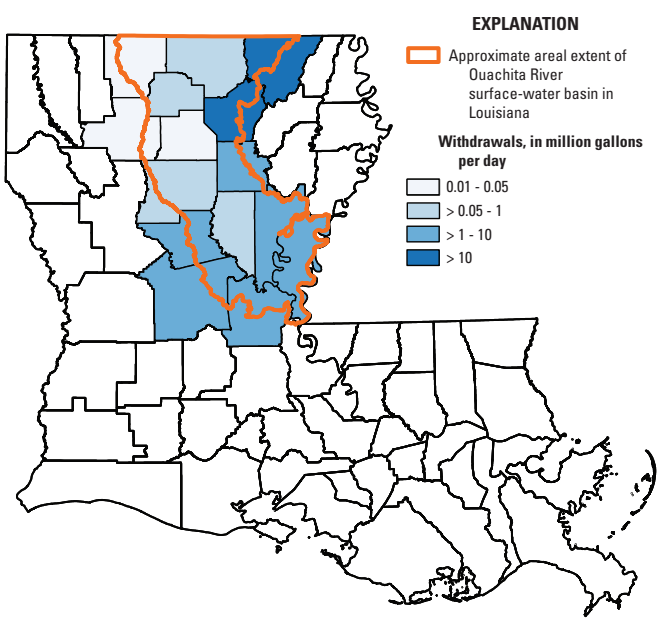
Symbol	
Mgal/d	million gallons per day
--	no withdrawals in 2020

Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Bayou Black	0.62
Bayou Boeuf	0.73
Bayou Lafourche	36.78
Intracoastal Waterway	8.51
Lake Verret	2.88

Withdrawals by parish	
Parish	**Mgal/d**
Ascension	1.29
Assumption	7.56
Iberville	0.06
Jefferson	0.01
Lafourche	42.10
Orleans	0.04
Plaquemines	0.01
St. Charles	0.05
St. James	2.31
St. John the Baptist	0.01
St. Martin	0.19
St. Mary	0.75
Terrebonne	3.91

Ouachita River Surface-Water Basin

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	16.45
Industry	10.91
Power generation	2.38
Rural domestic	--
Livestock	0.49
Rice irrigation	31.05
General irrigation	15.45
Aquaculture	1.07
Total	**77.80**



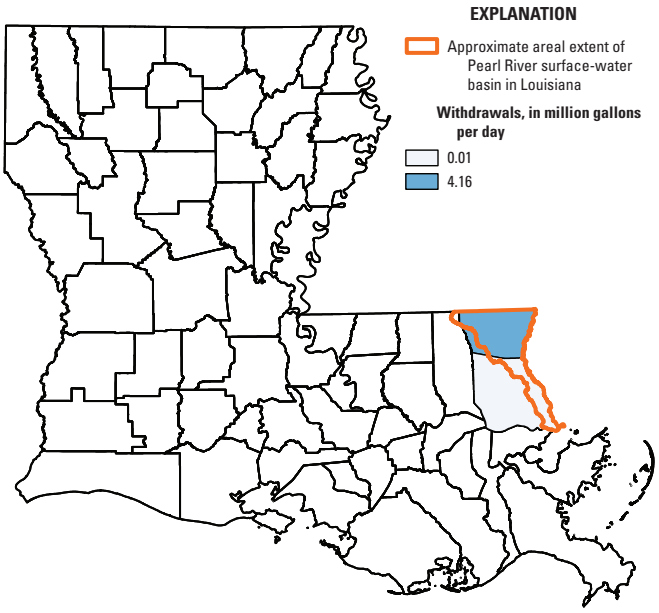
Symbol	
Mgal/d	million gallons per day
--	no withdrawals in 2020

Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Bayou Bartholomew	2.76
Bayou Cocodrie	5.62
Bayou D'Arbonne	1.17
Bayou de Siard	14.27
Big Creek	2.18
Castor	0.31
Falcon Creek	0.41
Little	1.27
Lower Ouachita	4.41
Lower Red	4.56
Ouachita River	28.32

Withdrawals by parish	
Parish	**Mgal/d**
Avoyelles	2.74
Bienville	0.00
Caldwell	1.87
Catahoula	6.43
Claiborne	0.03
Concordia	7.76
Grant	2.61
Jackson	0.02
LaSalle	0.26
Lincoln	0.08
Morehouse	16.05
Ouachita	35.08
Rapides	4.63
Union	0.17
Winn	0.06

Pearl River Surface-Water Basin

Withdrawals by parish	
Parish	**Mgal/d**
Public supply	--
Industry	3.97
Power generation	--
Rural domestic	--
Livestock	0.11
Rice irrigation	--
General irrigation	0.09
Aquaculture	--
Total	**4.17**



Symbol	
Mgal/d	million gallons per day
--	no withdrawals in 2020

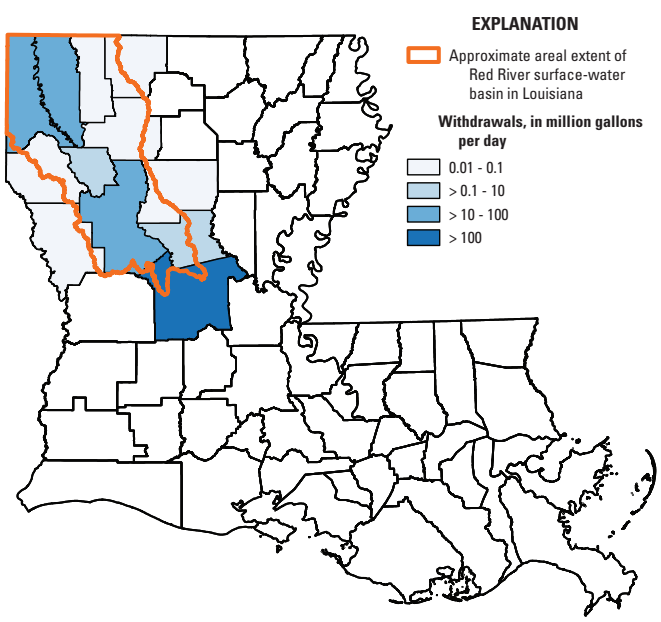
Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Bogue Lusa Creek	3.97
Lower Pearl	0.04

Withdrawals by parish	
Parish	**Mgal/d**
St. Tammany	0.01
Washington	4.16

Red River Surface-Water Basin

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	61.59
Industry	19.17
Power generation	805.57
Rural domestic	--
Livestock	0.68
Rice irrigation	3.22
General irrigation	6.93
Aquaculture	--
Total	**897.16**

Symbol	
Mgal/d	million gallons per day
--	no withdrawals in 2020

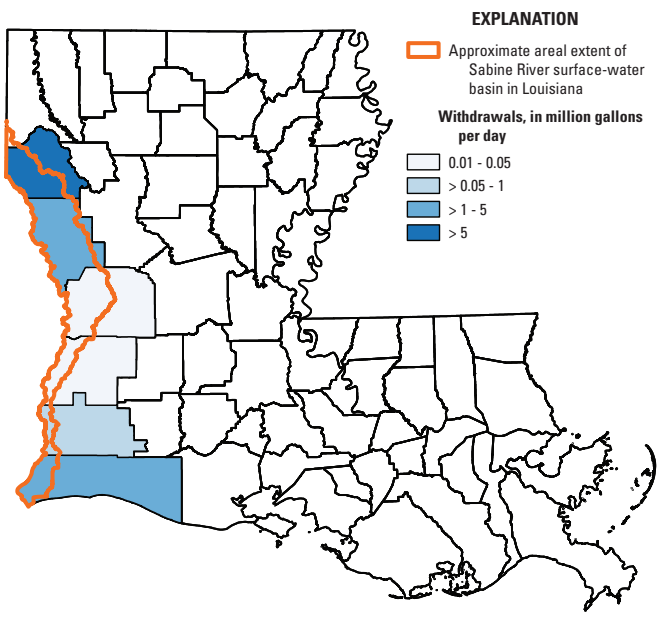


Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Bayou Pierre	1.15
Black Lake Bayou	0.52
Caddo Lake	23.41
Cane River	1.81
Cross Lake	37.00
Grand Bayou Reservoir	0.36
Lake Rodemacher	782.60
Little River	0.13
Lower Red Lake Iatt	2.54
Middle Red-Coushatta	0.09
Red River	34.43
Saline Bayou	0.57
Sibley Lake	5.92
Twelve Mile Bayou	2.68

Withdrawals by parish	
Parish	**Mgal/d**
Bienville	0.09
Bossier	16.52
Caddo	64.34
Claiborne	0.01
DeSoto	0.07
Grant	0.48
Natchitoches	28.75
Rapides	785.56
Red River	1.22
Sabine	0.00
Webster	0.10
Winn	0.02

Sabine River Surface-Water Basin

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	3.87
Industry	16.73
Power generation	2.18
Rural domestic	--
Livestock	0.12
Rice irrigation	2.10
General irrigation	0.06
Aquaculture	2.09
Total	**27.15**



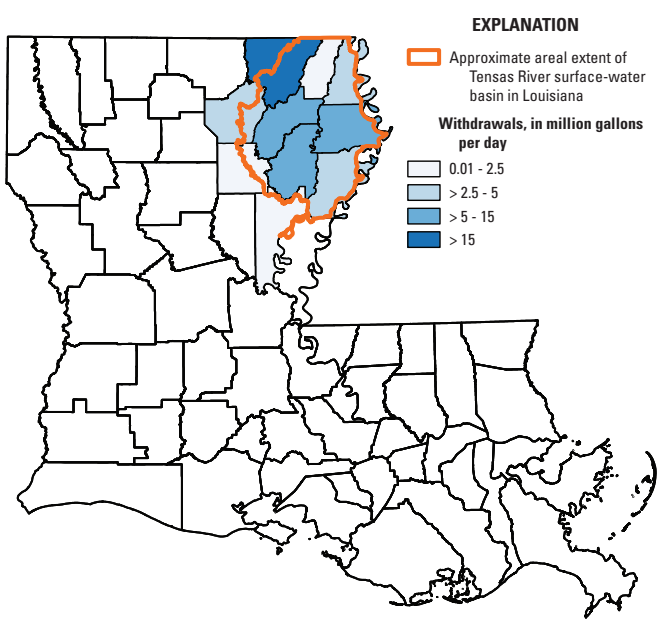
Symbol	
Mgal/d	million gallons per day
--	no withdrawals in 2020

Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Lower Sabine	0.47
Sabine Lake	1.63
Toledo Bend Reservoir	22.78

Withdrawals by parish	
Parish	**Mgal/d**
Beauregard	0.03
Calcasieu	0.86
Cameron	3.36
DeSoto	21.20
Sabine	1.65
Vernon	0.03

Tensas River Surface-Water Basin

Withdrawals by water-use category	
Water-use category	**Mgal/d**
Public supply	0.55
Industry	--
Power generation	--
Rural domestic	--
Livestock	0.15
Rice irrigation	41.55
General irrigation	26.62
Aquaculture	0.01
Total	**68.88**



Symbol	
Mgal/d	million gallons per day
--	no withdrawals in 2020

Withdrawals by major waterbody	
Waterbody	**Mgal/d**
Bayou Boeuf	29.12
Bayou Macon	4.50
Boeuf River	11.47
Joes Bayou	0.27
Lake Bruin	0.54
Tensas River	4.62

Withdrawals by parish	
Parish	**Mgal/d**
Caldwell	0.81
Catahoula	0.48
East Carroll	3.01
Franklin	12.05
Madison	6.71
Morehouse	25.99
Ouachita	3.19
Richland	10.89
Tensas	3.44
West Carroll	2.32

Appendix References Cited

Garrison, C.R., and Covay, K.J., 1994, Statistical summary of surface-water quality in Louisiana Sabine River basin, 1952–85: Louisiana Department of Transportation and Development, Water Resources Technical Report no. 55A, 63 p. [Also available at https://wise.er.usgs.gov/dp/pdfs/TR55A.pdf.]

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