

# GEOHYDROLOGIC UNITS OF LOUISIANA

System	Series	Stratigraphic Unit		Hydrogeologic Unit																		
				Northern Louisiana	Central Louisiana		Southwestern Louisiana		Southeastern Louisiana													
				aquifer or confining unit	aquifer system or confining unit		aquifer or confining unit		aquifer system or confining unit <sup>1</sup>	aquifer or confining unit <sup>2</sup>												
Lake Charles area	rice growing area	Baton Rouge area	St. Tammany, Tangipahoa, and Washington Parishes				New Orleans area and lower Mississippi River Parishes <sup>3</sup>															
Quaternary	Pleistocene	Red River alluvial deposits Mississippi River alluvial deposits Northern Louisiana terrace deposits Unnamed Pleistocene deposits		Red River alluvial aquifer or surficial confining unit Mississippi River alluvial aquifer or surficial confining unit Upland terrace aquifer or surficial confining unit	Alluvial aquifer, undifferentiated or surficial confining unit Prairie aquifer Montgomery aquifer Williana-Bentley aquifer	Chicot aquifer system or surficial confining unit	"200-foot" sand "500-foot" sand "700-foot" sand	Upper sand unit Lower sand unit	Chicot equivalent aquifer system or surficial confining unit	Mississippi River alluvial aquifer or surficial confining unit Shallow sand "400-foot" sand "600-foot" sand	Upland terrace aquifer Upper Pontchatoula aquifer	Gramercy aquifer Norco aquifer Gonzales-New Orleans aquifer "1,200-foot" sand										
Tertiary	Pliocene	Fleming Formation	Blounts Creek Member	units absent	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 Pontchatoula aquifer Big Branch aquifer Kentwood aquifer Abita aquifer Covington aquifer Slidell aquifer												
			Castor Creek Member										Castor Creek confining unit			unnamed confining unit	"2,000-foot" sand "2,400-foot" sand "2,800-foot" sand Tchefuncte aquifer Hammond aquifer Amite aquifer Ramsay aquifer Franklinton aquifer					
	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 or surficial confining unit		unnamed confining unit													
	Lena Member		Lena confining unit			unnamed confining unit																
	? Miocene	Catahoula Formation	Catahoula aquifer			Catahoula equivalent aquifer system or surficial confining unit			no freshwater occurs in deeper units													
			Vicksburg Group, undifferentiated		Vicksburg-Jackson confining unit																	
	? Oligocene	Jackson Group, undifferentiated																				
		Eocene										Claiborne Group	Cockfield Formation	Cockfield aquifer or surficial confining unit								
													Cook Mountain Formation	Cook Mountain aquifer or confining unit								
													Sparta sand	Sparta aquifer or surficial confining unit								
Cane River Formation													Cane River aquifer or confining unit									
Paleocene	Wilcox Group, undifferentiated	Carrizo sand	Carrizo-Wilcox aquifer or surficial confining unit																			
		Midway Group, undifferentiated	Midway confining unit																			

<sup>1</sup> The interval containing the four aquifer systems is referred to as the Southern Hills aquifer system.  
<sup>2</sup> Clay units separating aquifers in southeastern Louisiana are discontinuous, unnamed, and not listed herein.  
<sup>3</sup> The interval containing the four aquifers is referred to as the New Orleans aquifer system.