## STRATIGRAPHIC AND GEOHYDROLOGIC UNITS OF LOUISIANA

SYSTEM	SERIES		STRATIGRAPHIC	GEOHYDROLOGIC UNIT								
SISIEM	SERIES	UNIT		Northern Louisiana	Centr	al and Southwest Louisiana			theast1 Lou	neast <sup>1</sup> Louisiana		
			OTHI	Aquifer or Confining Unit	Aquifer System or Confining Unit	Aquifer or Confining Unit		- Aquifer System or		Aquifer   St Tammany,   New Orleans area		
						Lake Charles Area	Rice Growing Area	Confining Unit		Baton Rouge Area Tangipahoa & and lower Washington Parishes Mississippi River parishes		
QUATERNARY	HOLOCENE	Undifferentiated alluvial deposits Red River alluvial deposits Mississippi River alluvial deposits		Undifferentiated alluvial aquifers	Alluvial aquifer system	Undifferentiated	Alluvial Aquifer System		Undifferentiated alluvial aquifers			
	PLEISTOCENE	Northern Louisiana terrace deposits Unnamed Pleistocene deposits Upland Complex <sup>2</sup>		s Northern Louisiana terrace aquifer	Chicot aquifer system	"200 foot" aquifer	Upper Chicot aquifer	Chicot equivlent aquifer system		"400-foot"	., Shallow	Gramercy Norco
						"500 foot" aquifer "700 foot" aquifer	Lower Chicot aquifer		SYSTEM			Gonzales New Orleans "1200-foot"
	PLIOCENE		2	Equivalent aquifers absent in this area	2		Evangeline <sup>2</sup> equivalent aquifer system		"800-foot" "1000-foo "1200-foo	Big Branch	Unnamed	
TERTIARY	MIOCENE	FLEMING FORMATION	Blounts Creek Member		Evangeline aquifer <sup>2</sup>			AQUIFI	"1500-foot" "1700-foot"	" Abita	saline aquifers	
			Castor Creek Member		Castor Creek confining unit			Castor Creek equivalent confining unit	HILLS	"2000-foo "2400-foo "2800-foo	" Hammond	
			Williamson Creek Member Dough Hills Member Carnahan Bayou Member		Jasper aquifer system	Dough Hills aqu	Williamson Creek aquifer Dough Hills aquifer unit Carnahan Bayou aquifer		SOUTHERN	Unnamed saline aquifers	Unnamed	
			Lena Member		Lena confining unit			Lena equivalent confining unit				•
	OLIGOCENE		Catahoula Formation	Catahoula aquifer	Unamed saline aquifers			Catahoula equivalent aquifer system				
	321333211	Vicksburg Group		Vicksburg confining unit								
			Jackson Group	Jackson confining unit								
		戸	Cockfield Formation	Cockfield aquifer								
	EOCENE	ORN	Cook Mountain Formation	Cook Mountain confining unit								

Clay units separating aquifers in southeastern Louisiana are discontinous and unnamed.

**EOCENE** 

**PALEOCENE** 

**Sparta Formation** 

Carrizo Formation

Various formations

Midway Group

**Cane River Formation** 

Sparta aquifer

Cane River confining unit

Carrizo-Wilcox aquifer

Midway confining unit

## DEFINITIONS

AQUIFER: a formation or group of formations that will yield water to a well or a spring.

 $\ensuremath{\mathsf{AQUIFER}}$  SYSTEM: a group of aquifers that functions regionally as a water-yielding hydraulic unit.

EQUIVALENTS: Aquifer systems east of the Mississippi River that are stratigraphically correlative but not hydraulically connected to those west of the Mississippi River.

<sup>&</sup>lt;sup>2</sup> May be Pliocene in part; Pliocene not traditionally recognized at the surface in Louisiana

<sup>&</sup>lt;sup>3</sup> The Southern Hills Aquifer System is a sole surface regulatory aquifer unit. This term is not in general or geologic use.