U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PROFESSIONAL PAPER 1410-H
PLATE 1

Western Alabama

Erathem	System	Series		Group	Formations		Hydrogeologic units
Cenozoic	Quaternary	Holocene and Pleistocene			Alluvium and terrace deposits		Coastal lowlands aquifer system (A1)
	Tertiary	Pliocene			Citronelle Formation		
		Miocene			Catahoula Sandstone		
		Oligocene			Paynes Hammock Formation Chickasawhay Limestone		
				Vicksburg	Bucatunna Formation Byram Formation Glendon Formation Marianna Formation Mint Spring Formation		
					Forest Hill Formation	Red Bluff Formation	
		Eocene	Upper	Jackson	Yazoo Formation	Shubuta Member Pachuta Marl Member Cocoa Sand Member North Twistwood Creek Clay Member	Yazoo confining unit (C1)
					Moodys Branch Formation		
			Middle	Claiborne	Gosport Sand Lisbon Formation Tallahatta Formation		Lisbon aquifer (A2)
			Lower	Wilcox	Hatchetigbee Formation	Bashi Formation	
					Tuscahoma Formation		Tuscahoma confining unit (C2)
		Paleocene			Nanafalia Formation	Grampian Hills Member Unnamed member Gravel Creek Sand Member	Nanafalia-Clayton aquifer (A3)
					Salt Mountain Limestone		
				Midway	Naheola Formation	Coal Bluff Marl Member Oak Hill Member	
					Porters Creek Formation	Matthews Landing Marl Member	Prairie Bluff confining unit (C3)
					Clayton Formation	McBryde Limestone Member Pine Barren Member	
Mesozoic	Cretaceous	Upper Cretaceous			Prairie Bluff Chalk		
				Selma	Ripley Formation	Unnamed member	Providence-Ripley aquifer (A4)
					Demopolis Chalk		Selma confining unit (C4)
					Mooreville Chalk	Arcola Limestone Member Unnamed member	
					Eutaw Formation	Tombigbee Sand Member	Eutaw aquifer (A5)
					McShan Formation		Gordo confining unit (C5)
				Tuscaloosa	Gordo Formation Coker Formation		Tuscaloosa aquifer (A6)
		Lower Cretaceous			Undifferentiated rocks		
	Jurassic				Undifferentiated rocks		
	Triassic				Undifferentiated rocks		
Paleozoic	Pennsylvanian				Undifferentiated rocks		Base of fresh-water flow system

Aquifer systems		Hydrogeologic units
Coastal lowlands	Floridian	Coastal lowlands aquifer system (A1)
		Upper Floridian aquifer (A1)
		Yazoo confining unit (C1)
		Lisbon aquifer (A2)
		Tuscahoma confining unit (C2)
Southeastern Coastal Plain		Nanafalia-Clayton aquifer (A3)
		Prairie Bluff confining unit (C3)
		Providence-Ripley aquifer (A4)
		Selma confining unit (C4)
		Eutaw aquifer (A5)
		Gordo confining unit (C5)
		Tuscaloosa aquifer (A6)
		Base of fresh-water flow system

Eastern Alabama

Series, System, and Erathem		Group	Formations	
Holocene and Pleistocene			Alluvium and terrace deposits	
Miocene			Undifferentiated deposits	
Oligocene		Vicksburg	Marianna Formation Bumpnose Formation	
Eocene	Upper	Jackson	Ocala Limestone Moodys Branch Formation	
	Middle	Claiborne	Lisbon Formation Tallahatta Formation	
	Lower	Wilcox	Hatchetigbee Formation	Bashi Formation
			Tuscahoma Formation	Bells Landing Marl Member Greggs Landing Marl Member
			Nanafalia Formation	Baker Hill Formation
Paleocene		Midway	Clayton Formation	
Upper Cretaceous		Selma	Providence Sand	Unnamed member Perote Member
			Ripley Formation	Unnamed member Cusseta Sand Member
			Blufftown Formation	
			Eutaw Formation	Tombigbee Sand Member
		Tuscaloosa	Undifferentiated rocks	
Lower Cretaceous			Undifferentiated rocks	
Jurassic			Undifferentiated rocks	
Triassic			Undifferentiated rocks	
Paleozoic			Undifferentiated rocks	
Paleozoic and Precambrian			Undifferentiated metamorphic and igneous rocks	

Modified from Davis (1988)

Planert, M., Williams, J.S., and DeJarnette, S.S., 1993, Geohydrology of the Southeastern Coastal Plain aquifer system in Alabama: U.S. Geological Survey Professional Paper 1410-H

GENERALIZED CORRELATION CHART SHOWING STRATIGRAPHIC AND HYDROGEOLOGIC UNITS IN THE COASTAL PLAIN OF ALABAMA

By
Michael Planert, John S. Williams, and Sydney S. DeJarnette

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