WYRICK 1960	LICHTLER 1960	CLARKE 1964	LEVE 1966	WOLANSKY 1978	MILLER 1980	BOGGESS 1986; ARTHUR AND OTHERS 2008	SWFWMD PRESENT
nonartesian aquifer	Shallow aquifer	water-table aquifer	shallow aquifer system	unconfined aquifer	surficial aquifer	surficial aquifer system	surficial aquifer
confining unit	confining unit	confining unit	confining unit	confining unit	confining unit	confining unit	confining unit

[SWFWMD, Southwest Florida Water Management District]

SPROUL AND OTHERS 1972	JOYNER, SUTCLIFFE 1976	WEDDERBUI AND OTHER 1982		WOLANSKY 1983		BARR 1996	Α	TORRES ND OTHERS 2001	K	(NOCHENMUS 2006	,	ARTHUR AND OTHERS 2008		SWFWMD PRESENT		
confining unit	confining unit	confining u	nit	confining unit		confining unit		confining unit		confining unit		confining unit		confining unit		
sandstone aquifer	Zone 1	Sandston aquifer	9		_	Permeable Zone 1	_	Tamiami/ Peace River zone (PZ1)	_	Zone 1	_			Peace River aquifer		
confining unit	confining unit	confining u	nit o	adnite.		ıamıamı -	. 4	confining unit	stem	confining unit	ystem	confining unit	tem	ti.	E	confining unit
upper Hawthorn aquifer	Zone 2	mid-Hawth aquifer	ediate		Permea Zone	Permeable Zone 2	ate aquifer sy	Upper Arcadia zone (PZ2)	aquifer s	Zone 2	ite aquifer sysiate confining	zones/ aquifers were not delineated	n aquifer system	upper Arcadia aquifer		
confining unit	confining unit	confining u	nit nterme	confining unit	nedi	confining unit	nedi	confining unit	nedi	confining unit	ediate nediat	domioatod	hori	confining unit		
lower Hawthorn aquifer	Zone 3	lower Hawthorr Tampa producin	/	Lower Hawthorn - upper Tampa aquifer	Intern	Permeable Zone 3	Intern	Lower Arcadia zone (PZ3)	Intermediate	Zone 3	Intermi		Hawthorn	lower Arcadia aquifer		
confining unit	confining unit	zone confining u	nit	confining unit		confining unit		confining unit		confining unit		confining unit		confining unit		

[FAS, Floridan aquifer system; PZ, permeable zone; SWFWMD, Southwest Florida Water Management District]

STRINGFIELD 1936	PARKER AND OTHERS 1955	STRINGFIELD 1966	MILLER 1982	BUSH 1982	MILLER 1986	REESE AND RICHARDSON 2008	ARTHUR AND OTHERS 2008	WILLIAMS AND KUNIANSKY 2016	SWFWMD PRESENT
confining unit	confining unit	confining unit	confining unit	confining unit	confining unit	confining unit	confining unit	confining unit	confining unit
chief water-bearing artesian formations	Floridan aquifer	principal artesian aquifer	iry limestone aquifer system some accome aduler system some and some accompanies are accompanies and accompanies are accompanies accompanies are accompanies accompanies accompanies accompanies accompanies ar	Tertiary limestone aquifer some aduifer some aduifer some and some aduifer some aduiter some adu	Upper Floridan aquifer middle confining unit I Lower Floridan aquifer below middle confining unit I	Lower Hawthom producing zone Upper Floridan aquifer MC1 (middle semiconfining unit and/or confining unit, upper part) Avon Park permeable zone MC2 (middle)	Upper Floridan aquifer aduifer aduifer aquifer	Upper permeable zone Ocala-Avon Park low permeability zone (OCAPIpz) Avon Park Permeable Zone Zone	upper Floridan aquifer Ocala low- permeability zone Avon Park high- permeability zone ² middle confining unit I Avon Park high- permeability zone ² lower Floridan aquifer below middle confining unit I
			less permeable zone	Intra-aquifer low-permeablity zone	middle confining unit II or VI Lower Floridan aquifer below middle confining	semiconfin- ing unit and/or confining unit, lower part)	Middle Floridan confining unit ¹	Middle-Avon Park confining unit (MAPCU) Lower Avon Park permeable	middle confining unit II or VI lower Floridan aquifer below middle confining
			permeable zone	Lower permeable zone	unit II or VI middle confining unit VIII ³ Lower Floridan aquifer below middle confining unit VIII	Lower Floridan aquifer	Lower Floridan aquifer	Lower Avon Park permeable zone Glauconite marker unit Oldsmar permeable zone Oldsmar	unit II or VI middle confining unit VIII³ lower Floridan aquifer below middle confining unit VIII
			confining unit	confining unit	confining unit	confining unit	confining unit	confining unit	confining unit

[Terms shown are for hydrogeologic units present within the Southwest Florida Water Management District (SWFWMD)]

¹Arthur and others acknowledge existence of the middle confining unit I within the Southwest Florida Water Management but do not map it for Special Publication 68.

²The Avon Park high-permeability zone (SWFWMD fracture zone) crosses middle confining unit I in central Polk County; therefore, it occurs above the middle confining unit I in northern Polk and below the middle confining unit I in southern Polk.

³The middle confining unit VIII of Miller (1986) in south Florida was extended across the entire peninsula as the Glauconite marker unit based on new data in Williams and Kuniansky (2016).

Southwest Florida Water Management District Stratigraphic Correlation Chart

Holocene		undifferentiated sand and clay						
Pleistoce				surficial aquifer				
Pliocen	Calc	osal	shead Fm natchee Fm ami Fm					
	late	<u>o</u> B		Bone		confining unit		
Miocene	middle	٥	Coosawhatchie Formation	Peace River Member Memb	system¹	Peace River aquifer		
	early	Hawthorn Group	Arcadia Formation	Tampa Member Nocatee Member	Hawthorn aquifer system	upper Arcadia aquifer confining unit		
Oligocene	late	-	Arcadia	•••••	Ϋ́ ————————————————————————————————————	lower Arcadia aquifer confining unit		
	early	Suwa	annee	Limestone		oonming and		
	late		_	cala estone		Ocala low- upper permeability zone Floridan		
Eocene	middle	Avon Park Formation			Floridan aquifer system	aquifer Avon Park high-permeability zone² middle confining unit unit I Avon Park high-permeability zone² lower Floridan aquifer below middle confining unit I middle confining		
	early	Oldsmar Formation		Н	unit II or VI lower Floridan aquifer below middle confining unit II or VI middle confining unit VIII³ lower Floridan aquifer below middle confining			
Paleoce	Cedar Keys Formation				unit VIII confining unit			

This chart may be used to correlate the chronostratigraphic and lithostratigraphic units of the current hydrogeologic framework model of the Southwest Florida Water Management District.

Note: ¹The Hawthorn aquifer system was previouly referred to as the intermediate aquifer system. ²The Avon Park high-permeability zone (SWF-WMD fracture zone) crosses middle confining unit I in central Polk County; therefore, it occurs above the middle confining unit I in northern Polk and below the middle confining unit I in southern Polk. ³The middle confining unit VIII of Miller (1986) was extended beyond the original extent in south Florida based on new data.

Southwest Florida Water Management District Stratigraphic Correlation Chart

Holocene			ur	ndiffe	rentiated				
Pleistocene			sand and clay		surficial aquifer				
			Cypresshead Fm						
Pliocene			Caloosahatchee Fm Tamiami Fm				·		
	1		_						
	late	Alachua Formation		<u>e</u> .	Bone Valley		confining unit		
	middle			Coosawhatchie Formation	Member Member	stem¹	Peace River aquifer		
Miocene			ф	Coo	For	r sys	confining unit		
	early				Tampa	Hawthorn aquifer system	upper Arcadia aquifer		
			Hawthorn Group	Form	Member Nocatee Member	awtho	confining unit		
Oligocene	late		-	Arcadia Formation	•••••	ř	lower Arcadia aquifer		
l			Suwannee Limestone				confining unit		
	early	Crystal River Fm	Suwa		cala		Ocala low-		
l .	late	Williston Formation Inglis Formation	Limestone				upper permeability zone		
		·		Avon Par		system	Floridan aquifer Avon Park high- permeability zone ² middle confining unit unit I		
Eocene	middle	Lake City Limestone	Formation			Floridan aquifer system	Avon Park high- permeability zone ² lower Floridan aquifer below middle confining unit I middle confining		
	early				FIG	unit II or VI lower Floridan aquifer below middle confining unit II or VI middle condfining unit VIII ³ lower Floridan aquifer below middle confining			
Paleocene					r Keys nation		unit VIII confining unit		

This chart may be used to correlate the stratigraphic units in past reports to the current hydrogeologic framework model of the Southwest Florida Water Management District.

Note: ¹The Hawthorn aquifer system was previouly referred to as the intermediate aquifer system. ²The Avon Park high-permeability zone (SWF-WMD fracture zone) crosses middle confining unit I in central Polk County; therefore, it occurs above the middle confining unit I in northern Polk and below the middle confining unit I in southern Polk. ³The middle confining unit VIII of Miller (1986) was extended beyond the original extent in south Florida based on new data.

SA References (in chronological order):

- Wyrick, G.G., 1960, Ground-water resources of Volusia County, Florida: Florida Geological Survey Report of Investigations 22, 65 p.
- Lichtler, W.F., 1960, Geology and ground-water resources of Martin County, Florida: Florida Geological Survey Report of Investigations 23, 149 p.
- Clarke, WE., Musgrove, R.M., Menke, G.C., and Cagle, J.W., Jr., 1964, Water resources of Alachua, Bradford, Clay, and Union Counties, Florida: Florida Geological Survey Report of Investigations 35, 170 p.
- Leve, G.L., 1966, Ground water in Duval and Nassau Counties, Florida: Florida Geological Survey Report of Investigations 43, 91 p.
- Wolansky, R.M., 1978, Feasibility of water-supply development from the unconfined aquifer in Charlotte County, Florida: U.S. Geological Survey Water-Resources Investigations Report 78-26, 34 p.
- Miller, W.L., 1980, Geologic aspects of the surficial aquifer in the Upper East Coast planning area, southeast Florida: U.S. Geological Survey Water-Resources Investigations Report 80-586, scale 1:62,500, 2 sheets.
- Boggess, D.M., and Watkins, F.A., Jr., 1986, Surficial aquifer system in eastern Lee County, Florida: U.S. Geological Survey Water-Resources Investigations Report 85-4161, 59 p.
- Arthur, J.D., Fischler, C., Kromhout, C., Clayton, J.M., Kelley, M., Lee, R.A., O'Sullivan, M., Green, R.C., and Werner, C.L., 2008, Hydrogeologic Framework of the Southwest Florida Water Management District: Florida Geological Survey Bulletin No. 68, 104 p.

HAS References (in chronological order):

- Sproul, C.R., Boggess, D.H., and Woodward, H.J., 1972, Saline-water intrusion from deep artesian sources in the McGregor Isles area of Lee County, Florida: Florida Bureau of Geology Information Circular 75, 30 p.
- Joyner, B.F., and Sutcliffe, H. Jr., 1976, Water Resources of the Myakka River Basin Area, SouthwestFlorida: U.S. Geological Survey Water-Resources Investigation 76-58, 87 p.
- Wedderburn, L.A., Knapp, M.S., Waltz, D.P., and Burns, W.S., 1982, Hydrogeologic Reconnaissance of Lee County, Florida: South Florida Water Management District Technical Publication 82-1, pts. 1, 2, and 3, 192 p.
- Wolansky, R.M., 1983, Hydrogeology of the Sarasota-Port Charlotte Area, Florida: U.S. Geological Survey Water-Resources Investigations Report 82-4089, 54 p.
- Barr, G.L., 1996, Hydrogeology of the Surficial and Intermediate Aquifer Systems in Sarasota and Adjacent Counties, Florida: U.S. Geological Survey Water-Resources Investigations Report 96-4063, 87 p.
- Torres, A.E., Sacks, L.A., Yobbi, D.K., Knochenmus, L.A., and Katz, B.G., 2001, Hydrogeological Framework and Geochemistry of the Intermediate Aquifer System in Parts of Charlotte, De Soto, and Sarasota Counties, Florida: U.S. Geological Survey Water-Resources Investigations Report 01-4015, 81 p.
- Knochenmus, L.A., 2006, Regional Evaluation of the Hydrogeologic Framework, Hydraulic Properties, and Chemical Characteristics of the Intermediate Aquifer System Underlying Southern West-Central Florida: U.S. Geological Survey Scientific Investigations Report 2006-5013, 40 p.
- Arthur, J.D., Fischler, C., Kromhout, C., Clayton, J.M., Kelley, M., Lee, R.A., O'Sullivan, M., Green, R.C., and Werner, C.L., 2008, Hydrogeologic Framework of the Southwest Florida Water Management District: Florida Geological Survey Bulletin No. 68, 104 p.

FAS References (in chronological order):

- Stringfield, V.T., 1936, Artesian water in the Floridan peninsula: U.S. Geological Survey Water-Supply Paper 773-C, p. C115-C195.
- Parker, G.G., and others, 1955, Water resources of southeastern Florida: U.S. Geological Survey Water-Supply Paper 1255, 965 p.
- Stringfield, V. T., 1966, Artesian water in Tertiary limestone in the Southeastern States: U.S. Geological Survey Professional Paper 517, 226 p.
- Miller, J. A., 1982, Geology and configuration of the base of the Tertiary limestone aquifer system, southeastern United States: U.S. Geological Survey Water-Resources Investigations 81-1176, 1 map sheet.
- Bush, P. W., 1982, Predevelopment Flow in the Tertiary limestone aquifer, southeastern United States; A Regional Analysis from Digital Modeling: U.S. Geological Survey Water-Resources Investigations Report 82-905, 56 p.
- Miller, J. A., 1986, Hydrogeologic Framework of the Floridan Aquifer System in Florida and in Parts of Georgia, Alabama, and South Carolina: U.S. Geological Survey Professional Paper 1403-B., 91 p.
- Reese, R.S., and Richardson, Emily, 2008, Synthesis of the Hydrogeologic Framework of the Floridan Aquifer System and Delineation of a Major Avon Park Permeable Zone in Central and Southern Florida: U.S. Geological Survey Scientific Investigations Report 2007-5207, 60 p., 4 pls., plus apps. (on CD).
- Arthur, J.D., Fischler, C., Kromhout, C., Clayton, J.M., Kelley, M., Lee, R.A., O'Sullivan, M., Green, R.C., and Werner, C.L., 2008, Hydrogeologic Framework of the Southwest Florida Water Management District: Florida Geological Survey Bulletin No. 68, 104 p.
- Williams, L.J., and Kuniansky, E.L., 2016, Revised Hydrogeologic Framework of the Floridan Aquifer System in Florida and Parts of Georgia, Alabama, and South Carolina (ver. 1.1, March 2016): U.S. Geological Survey Professional Paper 1807, 140 p., 23 pls., http://dx.doi.org/10.3133/pp1807.
- NOTES: Figure captions to be used for reports are below. For figure 1, A, B, C will need to be added to the top left corner of each aquifer/aquifer system correlation chart. Do not include the reference and notes pages in the appendix. Instead include the references in the Selected References of the main report.
- Figure F1. Nomenclature of (A), the surficial aquifer, (B), the Hawthorn aquifer system, and (C), the Floridan aquifer system used for the ROMP ## Name well site compared to nomenclature in previously published reports.
- Figure F1. (Continued) Nomenclature of (A), the surficial aquifer, (B), the Hawthorn aquifer system, and (C), the Floridan aquifer system used for the ROMP ## Name well site compared to nomenclature in previously published reports.
- Figure F2. Chart correlating chronostratigraphic and lithostratigraphic units to the current hydrogeologic framework of the Southwest Florida Water Management District.
- Figure F3. Chart correlating lithostratigraphic units used in past reports to current lithostratigraphic units and the current hydrogeologic framework of the Southwest Florida Water Management District.