

## COLUMNAR SECTION

GENERALIZED SECTION FOR THE PATUXENT QUADRANGLE.								
SCALE: 1 INCH = 200 FEET.								
SYSTEM	SUBSYSTEM	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY AND SOILS.	
QUATERNARY	PLEISTOCENE (COLUMBIA GROUP)	Talbot formation.	Qt	OCCUR ONLY ON RIVER TERRACES ON OLDER FORMATIONS.	40	Loam, sand, and gravel, with clay lenses and ice-borne boulders.	Very flat to gently rolling low lands, 0 to 45 feet above sea. Sandy to loamy soil adapted for truck farming.	
		UNCONFORMITY						
		Wicomico formation.	Qw		20	Loam, sand, and gravel, with ice-borne boulders.	Flat to gently rolling lands, 40 to 100 feet above sea. Sandy or loamy soil suitable for truck farming and grain.	
		UNCONFORMITY						
		Sunderland formation.	Qs		35	Loam, sand, and gravel.	Flat to undulating uplands, 90 to 200 feet above sea. Loamy or sandy soil suitable for grain and fruit.	
TERTIARY	PLIOCENE (COLUMBIA GROUP)	Lafayette formation.	Tl		40	Loam, coarse sand, and gravel.	High rolling lands, 180 to 300 feet above sea. Clayey loam to gravelly soil, not very fertile.	
		UNCONFORMITY						
			Choptank formation.	Tc		50	Fine sand, sandy clay, and shell marl.	Steep slopes along streams. Sandy soil.
			UNCONFORMITY					
			Calvert formation.	Tcv		50-100	Blue clay, sandy clay, shell marl, and diatomaceous earth.	Slopes along streams. Light soil of medium fertility.
			UNCONFORMITY					
		Nanjemoy formation.	Tn		100	Glauconitic sand, pink clay, and shell marl.	Level land with broad, open valleys. Moderately heavy, fertile soil.	
		UNCONFORMITY						
		Aquia formation.	Ta		100	Light- and dark-colored sand, largely glauconitic, occasionally firmly indurated by iron oxide, and shell marl.	Level land with broad, open valleys. Moderately heavy, fertile soil.	
CRETACEOUS	UPPER CRETACEOUS (FAMINEY GROUP)	UNCONFORMITY						
		Monmouth formation.	Km		40-50	Reddish-brown and greenish-black sand with many irregular iron crusts.	Gentle slopes along streams. Rich brown soil.	
		UNCONFORMITY						
			Matawan formation.	Kmw		45-50	Gray and black micaceous sandy clay carrying glauconite.	Slopes along streams. Rich soil containing many small flakes of mica.
			UNCONFORMITY					
			Magothy formation.	Kma		0-40	Thinly laminated sand and clay with much lignite and occasional ferruginous sandstone.	Gentle to steep slopes along streams. Sandy soil.
		UNCONFORMITY						
		Ruritan formation.	Kr		100	Variegated clay, sand, and gravel, with some lignite.	Irregular topography. Sandy to argillaceous soil of low fertility.	
		UNCONFORMITY						
		Patuxent formation.	Kpt		100	Highly colored variegated clay interbedded with sand and gravel.	Irregular topography. Sandy to argillaceous soil of low fertility.	
		UNCONFORMITY						
JURASSIC?	POTOMAC	Arundel formation.	Ja		0-125	Drab, red, and black clay carrying lignite and iron ore.	Irregular topography. Sandy to argillaceous soil of low fertility.	
		UNCONFORMITY						
		Patuxent formation.	Jp		340	Light-colored arkosic sands with clay lenses and gravel bands.	Irregular topography. Sandy to argillaceous soil of low fertility.	
		UNCONFORMITY						
ARCHEAN		Granite gneiss.	Rg			Gray granite gneiss.	Steep slopes along streams. Light to heavy clay soil containing sand and mica flakes.	