

SYSTEM	SERIES	PIEDMONT PROVINCE		NEW ENGLAND PROVINCE		VALLEY AND RIDGE PROVINCE			APPALACHIAN PLATEAUS PROVINCE		EASTERN PENNSYLVANIA			
		Southern	Northern	Pennsylvania	New Jersey	Pennsylvania	New Jersey	New York	Pennsylvania	New York	Willard, Swartz, and Cleaves (1939); Swartz and Swartz (1939, 1941); Howell, Roberts, and Willard (1950); Trexler (1953).	Pennsylvania Topographic and Geologic Survey		
CARBONIFEROUS PENNSYLVANIAN	Middle Pennsylvanian					Allegheny formation						Post Pottsville formations		
	Lower and Middle Pennsylvanian					Pottsville formation						Pottsville group		
	Upper Mississippian					Mauch Chunk formation						Mauch Chunk formation		
	Lower Mississippian					Pocono formation			Pocono formation			Pocono formation		
DEVONIAN	Upper Devonian				Skunnemunk conglomerate	Catskill formation			Catskill formation	Montrose red shale ⁹ of White (1881) Catawissa reds of Chadwick (1932) Kattel shale of Chadwick (1932) Oneonta sandstone Onteora formation Gilboa formation Kaaterskill formation of Willard (1936) Kiskatom formation	Mount Pleasant red shale member Elk Mountain gray sandstone member Cherry Ridge red beds Honesdale gray sandstone member Damascus and Shohola red and gray shale members Delaware red flags Analomink red shale member	Catskill formation		
	Middle Devonian				Bellvale sandstone of Lewis and Kummel (1915) Cornwall shale	Hamilton group Mahantango fm. of Willard (1935) Marcellus shale	Marcellus shale	Marcellus shale	Marcellus shale			Hamilton group Moscow shale Ludlowville formation centerfield reef Skaneateles formation Marcellus shale	Mahantango formation Marcellus formation	
	Lower Devonian				Kanouse sandstone	Onondaga limestone	Onondaga limestone	Onondaga limestone	Onondaga limestone			Onondaga group Buttermilk Falls limestone Schoharie shale Esopus shale	Onondaga group	
						Esopus shale	Esopus shale	Esopus shale	Esopus shale			Oriskany group Ridgeley limestone	Oriskany group	
SILURIAN						Helderberg group Port Ewen limestone Becraft limestone New Scotland limestone Stormville sandstone of Weller (1900) Coeymans limestone	Helderberg group Port Ewen limestone Becraft limestone New Scotland limestone Stormville sandstone of Weller (1900) Coeymans limestone	Helderberg group Port Ewen limestone Alsen cherty limestone Becraft limestone New Scotland limestone Kalkberg limestone Coeymans limestone			Helderberg group Port Ewen shale Becraft limestone New Scotland limestone Kalkberg member in lower part Coeymans limestone	Helderberg group Manlius limestone ⁵ Rondout limestone ⁵ Decker formation ⁵ Bossardsville limestone ⁵ Poxono Island shale ⁵		
					Decker limestone	Decker limestone	Decker limestone	Decker limestone						
					Longwood shale	Bloomsburg red beds	High Falls formation	Bloomsburg red beds Binnewater sandstone of Grabau (1906) High Falls shale					Bloomsburg red beds	Bloomsburg formation
					Green Pond conglomerate	Shawangunk conglomerate ¹¹	Shawangunk conglomerate	Shawangunk conglomerate					Shawangunk formation	Shawangunk formation
ORDOVICIAN	Upper Ordovician				Martinsburg shale	Martinsburg shale	Martinsburg shale	Martinsburg shale				Martinsburg group Shochary sandstone Dauphin slate and shale	Martinsburg formation	
	Middle Ordovician				Jacksonburg limestone	Jacksonburg limestone	Jacksonburg limestone	Jacksonburg limestone				Jacksonburg limestone	Hershey formation	
	Lower Ordovician				Beekmantown limestone	Beekmantown limestone	Beekmantown limestone	Beekmantown limestone				Beekmantown limestone	Beekmantown formation	
CAMBRIAN	Upper Cambrian				Allentown limestone of Wherry (1909)	Kittatinny limestone ³	Allentown limestone of Wherry (1909)	Kittatinny limestone ³				Allentown limestone Limeport limestone	Allentown formation (Middle Cambrian, not proved present)	
	Middle Cambrian				Ledger dolomite Kinzers formation Vintage dolomite	Tomstown dolomite	Ledger dolomite Kinzers formation Vintage dolomite	Tomstown dolomite				Leithsville formation	Tomstown group Ledger dolomite Kinzers formation Vintage dolomite	
	Lower Cambrian				Antietam quartzite Harpers schist	Hardyston quartzite	Hardyston quartzite	Hardyston quartzite				Hardyston formation	Hardyston formation ⁶	
					Chickies quartzite (incl. Hellam conglomerate member)									

¹ Although previously assigned to the Precambrian, increasing evidence indicates that the Glenarm series is probably lower Paleozoic. Locally the Glenarm series contains a considerable amount of granitic to gabbroic rock.
² The Conestoga limestone overlaps several formations and unconformably overlies formations as old as the Harpers schist.

³ The Kittatinny limestone in New Jersey includes all carbonate rocks below the Jacksonburg limestone and above the Hardyston quartzite.
⁴ Classification based on an unpublished report by Carlyle Gray, Pennsylvania Topographic and Geologic Survey.

⁵ Mappability of these formations in eastern Pennsylvania not tested.
⁶ Equivalent to Chickies quartzite and possibly also to the Antietam quartzite and Harpers schist.
⁷ Classification furnished by Bradford Willard, (written communication - 1958).

⁸ Classification furnished by Carlyle Gray, (written, communication 1958).
⁹ Renamed Damascus red shale by Willard (1936).
¹⁰ Locally called Poxono Island shale (of White, 1882).
¹¹ Equivalent to the Tuscarora sandstone and at least part of the Clinton formation west of the Delaware River Basin (Gray and others, 1960).

CORRELATION CHART OF PALEOZOIC FORMATIONS IN DELAWARE RIVER BASIN AND NEW JERSEY