

TIME-STRATIGRAPHIC UNITS		ROCK UNITS					
SYSTEM	SERIES	GROUP	FORMATION <i>Units found in the subsurface only are indicated in italics</i>	PRINCIPAL MEMBERS OR BEDS	DRILLERS' OR INFORMAL NAMES		
PERMIAN		Dunkard	Greene Fm				
			Washington Fm	Upper Marietta ss Creston-Reds Lower Marietta ss Washington coal Mannington ss Waynesburg ss	No. 12 coal		
PENNSYLVANIAN		Monongahela		Waynesburg coal Uniontown coal Benwood ls U. Sewickley ss Meigs Creek coal Pittsburgh ss Pittsburgh coal	No. 11 coal No. 10 coal Goose Run No. 9 coal No. 8 coal		
			Conemaugh		Connellsville ss Morgantown ss Gaysport ss Ames ls Saltsburg ss Cow Run ss Cambridge ls Buffalo ss Brush Creek ls Mahoning ss	Mitchell Wolf Creek Vincent Peeker 1st Cow Run Buell Run Macksburg 300'	
			Allegheny		U. Freeport coal U. Freeport ss M. Kittanning coal L. Kittanning coal Clarion ss Putnam Hill ls Brookville coal	No. 7 coal 2nd Cow Run No. 6 coal No. 5 coal Macksburg 500' No. 4 coal	
			Pottsville		Homewood ss U. Mercer ss L. Mercer coal L. Mercer ss Massillon ss Quakertown coal Sciotoville ss Sharon coal Sharon ss, cong	Macksburg 700' Germantown No. 3 coal Schram Salt No. 2 coal Brill No. 1 coal Maxton	
					Maxville Ls		Jingle Rock
MISSISSIPPIAN			Logan Fm	Vinton Ss Allensville Cong Byer Ss Beme Cong	Keener		
			Cuyahoga Fm	Black Hand Ss Portsmouth Sh Buena Vista Ss Henley Sh	Big Injun Squaw Weir Hamden		
			Sunbury Sh		Coffee shale		
			Berea Ss		1st Berea		
			Bedford Sh		2nd Berea		
					Cussewago Ss		
			Ohio Sh	Cleveland Sh Chagrin Sh Huron Sh	Little Cinnamon Gordon Big Cinnamon		
DEVONIAN	Senecan	Traverse	Tenmile Creek Dol	Olentangy Sh	L I M E 1st Water B I G Newburg 2nd Water Keefe		
			Silica Fm				
	Erian	NORTHWESTERN OHIO	Dundee Fm	EASTERN OHIO		Delaware Ls	
			dolomite and Sylvania Ss			Columbus Ls	
	Ulsterian	Detroit R.	rocks absent because of erosion or nondeposition			Bois Blanc Fm Oriskany Ss Helderberg Ls	
	Cayugan	Salina	WESTERN OHIO	dolomite		EASTERN OHIO	G unit (outcrops in Ottawa County only) F unit (outcrops in Ottawa County only) D and E units C unit B unit A unit
							Tymochtee Fm
							Greenfield Fm
							Guelph Dol
Goat Island Dol							
Niagaran	Lockport	NORTH-CENTRAL OHIO	Gasport Dol				
Alexandrian	Cataract	WESTERN OHIO	Cabot Head Fm.	EASTERN OHIO	sandstone and shale		
			Brassfield Fm.				
			limestone and shale			Queenston Sh	
			Fairview Fm			NORTHERN AND EASTERN OHIO	shale and limestone
Cincinnati		SOUTHWESTERN OHIO	Kope Fm				
			Trenton Ls				
			Black River Ls				
Champlainian			Glenwood Fm (Wells Creek Fm)		St. Peter		
			Knox Dol		Beekmantown Rose Run Copper Ridge		
St. Croixian		WESTERN OHIO	Kerbel Fm	EASTERN OHIO			
			Eau Claire Fm			Conasauga Fm Rome Fm	
			Mt. Simon Ss				
PRE-CAMBRIAN			basement complex		basal sand granite		

sh shale dol dolomite U. Upper
 ss sandstone cong conglomerate M. Middle
 ls limestone fm formation L. Lower
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