

GEOLOGIC TIME				OUTCROP NOMENCLATURE				DOMINANT LITHOLOGY				SUBSURFACE NOMENCLATURE								
ERA	PERIOD	EPOCH	NORTH AMERICAN STAGES	GROUP		FORMATION		MEMBER		FORMATION				GROUP						
Cenozoic	Quaternary	Pleistocene	Wisconsinan			Glacial Drift				Glacial Drift										
Mesozoic	Jurassic	Middle	Oxfordian			Ionia Fm				Ionia Fm										
Paleozoic	Pennsylvanian	Late	Conemaugh			Grand River Fm				Grand River Fm										
		Early	Pottsville			Saginaw Fm				Saginaw Fm										
						Parma Ss				Parma Ss										
	Mississippian	Late	Meramecian			Bayport Ls				Bayport Ls										
						Michigan Fm				Michigan Fm										
			Osagian			Marshall Ss				Marshall Ss										
		Early	Kinderhookian			Coldwater Sh				Coldwater Sh										
						Sunbury Sh				Sunbury Sh										
	Devonian	Late	Chautauquan			Ellsworth Sh (western)	Berea Ss (eastern)	Bedford Sh			Ellsworth Sh (western)				Berea Ss (eastern)	Bedford Sh				
						Antrim Sh		Upper Mbr				Upper Mbr		Antrim Sh						
								Lachine Mbr				Lachine Mbr								
								Paxton Mbr				Paxton Mbr								
								Norwood Mbr				Norwood Mbr								
				Senecan				Squaw Bay Ls				Squaw Bay Ls								
				Middle	Erian	Traverse Gr			Thunder Bay Ls		Partridge Point Mbr				Traverse Ls				Traverse Gr	
									Potter Farm Mbr											
									Norway Point Mbr											
									Alpena Ls		Four Mile Dam Mbr									
									Newton Creek Mbr											
							Long Lake Ls		Killians Mbr											
									Genshaw Mbr											
							Ferron Point Fm													
							Rockport Quarry Ls													
							Bell Sh						Bell Sh							
							Rogers City Ls													
							Dundee Ls						Dundee Ls							
		Early	Ulsterian				Detroit River Gr			Anderdon Ls				Mackinac Breccia		Lucas Fm		Detroit River Gr		
										Lucas Fm										
										Amherstburg Fm										
										Sylvania Ss										
										Bois Blanc Fm										
										Garden Island Fm										
						Rasin River Dol				undifferentiated		Bass Islands Gr								
						Put-in-Bay Dol														
						St. Ignace Dol														
						Pte. aux Chenes Fm						Salina G Unit				Salina Gr				
												Salina F Unit								
												Salina E Unit								
			Salina D Unit																	
			Salina C Unit																	
			Salina B Unit																	
	Late	Cayugan	Salina Gr			Salina A-2 Carb						Salina A-2 Evap								
						Ruff Fm						Salina A-1 Evap								
						Cain Fm														
						Guelph Dol						Niagara Gr								
						Lockport Dol														
						undifferentiated						Manistique Gr								
						undifferentiated				Burnt Bluff Gr										
				Early	Alexandrian	Cataract Gr			Cabot Head Sh				Cabot Head Sh		Cataract Gr					
									Manitoulin Dol				Manitoulin Dol							
									Queenston Sh				Richmond Gr							
									Utica Sh											
									Collingwood Sh											
			Trenton Fm						Trenton Fm											
	Ordovician	Late	Cincinnatian	Richmond Gr			Big Hill Fm				Queenston Sh		Richmond Gr							
							Stonington Fm		Ogontz Mbr		Utica Sh									
									Bay de Noc Mbr											
							Bill's Creek Sh													
							Collingwood Sh													
							Trenton Fm		Groos Quarry Mbr		Chandler Falls Mbr									
		Middle	Mohawkian			Black River Fm				Black River Fm										
										Glenwood Fm										
										St.Peter Ss										
								Foster Fm		Prairie du Chien Gr										
								undifferentiated												
								Trempealeau Fm												
Early	Canadian			Au Train Fm																
Cambrian	Late	Trempealeau																		
		Franconian																		
		Dresbachian			Munising Fm		Miner's Castle Mbr		Chapel Rock Mbr		Munising Gr									
					Basal Cgl															
					Jacobsville Ss															
Middle Proterozoic Eon			Oronto Gr			Freda Ss						Pre-Mt. Simon Clastics								
						Nonesuch Sh														
						Copper Harbor Cgl														
Archean to Middle Proterozoic Eons				Precambrian Crystalline Basement Complex				Precambrian Crystalline Basement Complex												

STRATIGRAPHIC NOMENCLATURE FOR MICHIGAN

Michigan Dept. of Environmental Quality
Geological Survey Division
Harold Fitch, State Geologist
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A complete listing of all contributors will be found in the Stratigraphic Lexicon for Michigan, of which this column is an integral part.

RELATED TERM CORRELATION

STRATIGRAPHIC POSITION	RELATED TERMS
Ionia Fm	Jurassic Red Beds
Michigan Fm	Clare Dolomite, Brown Lime, Stray Dolomite, Stray Sandstone, Stray-Stray Sandstone, Stray-Stray-Stray Sandstone, Triple Gyp
Coldwater Sh	Coldwater Red Rock, Speckled Dolomite, Wier Sand
Antrim Sh	Charlton Black Shale Member, Elltrim, Chester Black Shale Member, Upper Black Shale, Light Antrim, Lower Black, Lower Antrim, Middle Antrim, Middle Gray Antrim, Dark Antrim, Middle Gray Shale, Unit 1A, Unit 1B, Unit 1C, Crappo Creek Grey Shale Member
Dundee Ls	Reed City Member/Dolomite/Anhydrite
Lucas Fm	Freer Sandstone, Horner Member, Iutzi Member, Massive Salt/Anhydrite, Sour Zone, Big Anhydrite, Richfield Zone/Member/Sandstone, Big Salt
Amherstburg Fm	Filer Sandstone, Meldrum Member, Black Lime
St. Ignace Dolomite	Salina H Unit
Salina B Unit	Big Salt, B Salt
Ruff Formation	Salina A-1 Carbonate, Rabbit Ears Anhydrite,
Cain Fm	Salina A-0 Carbonate
Guelph Dolomite	Brown Niagara, Niagaran Reef, Pinnacle Reef, Engadine Dolomite
Lockport Dolomite	Gray Niagara, White Niagara
Burnt Bluff Gr	Clinton Formation
Trenton Fm	Cap Dolomite
Black River Fm	Van Wert Zone, Sneaky Peak, Black River Shale
Glenwood Fm	Goodwell Unit, Zone of Unconformity
St. Peter Sandstone	Bruggers Sandstone, Jordan Sandstone, Knox Sandstone, Massive Sand
Prairie du Chien Gr	Foster Formation, New Richmond Sandstone, Lower Knox Carbonate, St. Lawrence Formation, T-PDC, Oneota Dolomite, Brazos Shale
Trempealeau Fm	Lodi Formation
Galesville Ss	Dresbach Sandstone
Pre-Mt. Simon Clastics	Precambrian "Red Beds"

LEGEND

Sandstone		Limestone	
Limey		Shaley	
Shaley		Sandy	
Dolomitic		Dolomite	
Conglomeritic		Sandy	
Siltstone		Shaley	
Shale		Glacial Drift	
Sandy		Anhydrite/Gypsum	
Limey		Reefs/Bioherms	
Dolomitic		Basement Rocks	
Salt		Coal Bed	