Eon	Era	Period		Epoch	Time Began (Million Years)
Phanerozoic	Cenozoic	Quaternary		Holocene	0.01
				Pleistocene	1.8
		Tertiary	Neogene	Pliocene	5.3
				Miocene	23.0
			Paleogene	Oligocene	33.9
				Eocene	55.8
				Paleocene	65.5
	Mesozoic	Cretaceous			146
		Jurassic			200
		Triassic			251
	Paleozoic	Permian			299
		Carboniferous	Pennsylvanian		318
			Mississippian		359
		Devonian			416
		Silurian			444
		Ordovician			488
		Cambrian			542
Proterozoic					2500
Archean					4000
Hadean					4560

ERA		PERIOD/ SYSTEM	MILLIONS YEARS AGO	PREDOMINANT ROCK TYPES IN INDIANA	PRINCIPAL FOSSIL TYPES IN INDIANA
CENOZOIC	QUATERNARY		2.6 —	Unconsolidated deposits - glacial till, sand, gravel, silt, marl, clay, and peat deposited during and after continental glaciation	Mastodon, mammoth, peccary, dire wolf, saber-toothed cat, gastropods, pelecypods, plants, and pollen
CEN	TERTIARY		65.5 —	Unconsolidated sediment consisting of clay, mud, gravel, sand, and silt	Short-faced bear, peccary, camels, snakes, rodents, fishes, birds, and turtles
OIC	CRETACEOUS		145.5	None present	None present
ESOZ	JURASSIC TRIASSIC		199.6	None present	None present
2			251	None present	None present
	PERMIAN		200	None present	None present
PALEOZOIC	-EROUS	PENNSYL- VANIAN	299 —	Shale, sandstone, mudstone, clay, coal, limestone, and conglomerate	Lycopods, Calamites, seed ferns, true ferns, Cordaites, and amphibians
	CARBONIFEROUS	MISSIS- SIPPIAN	318.1 359.2	Shale, sandstone, siltstone, limestone, and gypsum	Crinoids, brachiopods, cephalopods, corals, molluscs, trilobites, bryozoans, fishes, arthropods, and foraminifera
	DEVONIAN			Upper part: carbonaceous shale Lower part: limestone, dolostone, and shale	Corals, brachiopods, cephalopods, trilobites, pelecypods, and bryozoans
	SILURIAN		416 —	Dolostone, limestone, siltstone, and shale	Corals, stromatoporoids, bryozoans, brachiopods, trilobites, gastropods, pelecypods, crinoids, and eurypterids
	ORDOVICIAN		443.7	Upper part: shale and limestone Lower part: limestone, dolostone, and sandstone*	Cephalopods, trilobites, brachiopods, bryozoans, crinoids, pelecypods, and gastropods
	CAMBRIAN		488.3 —	Sandstone and dolostone*	Trilobites, brachiopods, and sponges
PRECAMBRIAN		4,600	Granite, marble, gneiss, and other igneous and metamorphic rock types*	Microbes	

^{*} Present only in the subsurface

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Geologic time dates from U.S. Geological Survey, 2010, Divisions of geologic time—major chronostratigraphic and geochronologic units: U.S. Geological Survey Fact Sheet 2010-3059.