

STRATIGRAPHIC COLUMN OF IOWA

SYSTEM	SERIES	GROUP	FORMATION	DESCRIPTION	THICKNESS	(MILLION YEARS)		
Quaternary	Pleistocene		Wisconsin	loess, glacial till and interbedded sand and gravel	500'	1		
			Illinoian					
			Kansan					
Cretaceous		Colorado	Carlile	shale	350'	90		
			Greenhorn	limestone and shale				
			Graneros	shale				
		Dakota		sandstone and shale	200'			
Jurassic			Fort Dodge beds	gypsum, red and green shales in Webster County only	50'	181		
Pennsylvanian	Virgil	Wabauensee	French Creek	shale	210'	310		
			Jim Creek	limestone				
			Friedrich	shale				
			Grandharen	limestone				
			Dry	shale				
			Dover	limestone				
			Langdon includes (Nyman Coal)	shale				
			Maple Hill	limestone				
			Wamego	shale				
			Tarkio	limestone				
			Willard	shale				
			Elmont	limestone				
			Harveyville	shale				
			Reading	limestone				
			Auburn	shale				
			Wakarusa	limestone				
			Soldier Creek	shale				
			Burlingame	limestone				
			Silver Lake	shale				
			Rulo	limestone				
		Cedar Vale (includes Elmo bed at top)	shale					
		Happy Hollow	limestone					
		White Cloud	shale					
		Howard	limestone					
		Severy (includes Nodaway coal bed at base)	shale					
				Shawnee	Topeka		limestone	180'
					Calhoun		shale	
					Deer Creek		limestone	
					Tecumseh		shale	
					Lecompton		limestone	
				Douglas	Kanwaka		shale	110'
					Oread		limestone	
					Lawrence		shale	
		Lansing	Stranger	shale	50'			
			Iatan	limestone				
			Weston	shale				
		Missouri	Stanton	limestone	215'			
			Vilas	shale				
			Plattsburg	limestone				
			Bonner Springs	shale				
			Wyandotte	limestone and shale				
			Lane	shale				
			Iola	limestone and shale				
			Chanute	shale				
			Drum	limestone				
			Quivira	shale				
			Westerville	limestone				
			Cherryvale	shale				
			Dennis	limestone and shale				
		Galesburg	shale					
		Swope	limestone					
		Ladore	shale					
		Hertha	limestone					
		Pleasanton	undifferentiated	shale and sandstone, thin coal beds	40'			
		Des Moines	Lenapah	limestone	145'			
			Nowata	shale				
			Altamont	limestone and shale				
			Bandera	shale				
			Pawnee	limestone and shale				
			Labette	shale				
		Cherokee	undifferentiated	shale, sandstone, thin limestones and coal	755'			
Mississippian	Meramec		St. Genevieve	shale and limestone	140'			
			St. Louis	sandy limestone				
			Spergen	limestone				
	Osage		Warsaw	shale and dolomite	250'			
			Keokuk	cherty dolomite and limestone				
	Kinderhook		Burlington	cherty dolomite and limestone	300'			
			Gilmore City	limestone, oolitic				
		Hampton	limestone and dolomite					
		North Hill	Starrs Cave	limestone				
		Prospect Hill	siltstone	100'				
		McCraney	limestone	345				
Devonian	Upper	Yellow Spring	English River	siltstone	300'			
			Maple Mill	shale				
			Aplington	dolomite				
			Sheffield	shale				
	Middle		Lime Creek	dolomite and shale	225'			
			Shell Rock	limestone and dolomite				
Lower		Cedar Valley	limestone and dolomite	270'				
		Wapsipinicon	limestone and dolomites, shales in middle					
			La Porte City	chert, limestone and dolomite	50-100'	400		
Silurian	Niagaran		Gower	dolomite	300'			
			Hopkinton					
	Alexandrian		Kankakee	cherty dolomite	100'	425		
Ordovician	Cincinnatian		Edgewood	sandy dolomite	300'			
			Maquoketa	dolomite and shale				
	Mohawkian		Galena	dolomite and chert	320'			
			Decorah	limestone and shale				
	Chazyan		Platteville	limestone, shale and sandstone	70'			
		St. Peter	sandstone	50-230'				
		Beekmantown	Prairie du Chien	sandy and cherty dolomite and sandstone	290'	500		
Cambrian	St. Croixan	Trempealeau	Madison ^a	sandstone	185'			
			Jordan					
			Lodi ^a					
			St. Lawrence	dolomite	160'			
			Franconia	glauconitic sandstone, siltstone, shale				
Dresbach		Galesville	sandstone	550'				
		Eau Claire	sandstone and shale, dolomite					
			Mt. Simon	sandstone	600?			
Precambrian				sediments (sandstones), igneous, and metamorphic rocks				

^a recognized only in extreme northeast Iowa