

GENERALIZED COLUMNAR SECTION OF EXPOSED ROCKS

SYSTEM	SERIES	MEGAGROUP	GROUP	FORMATION	MEMBER	LITHOLOGY	SYMBOL	THICKNESS IN FEET
PENNSYLVANIAN			Kewanee	Spoon				30±
			McCormick	Albion	Murray Bluff			200-330
					Delwood Coal			
					Finlie			
					Willis Coal			
					Grindstaff			
			Caseyville	Pounds				250-350
					Gentry Coal			
					Sellers			
					Battery Rock			
					Lusk			
CHESTERIAN			Fope	Kinkaid	Negit Creek			0-40
					Deonia			0-30
					Ford Station			70-120
					Tygett			
					Cora			
			Colcord	Palestine				50-60
					Allard			100-130
					Scottsburg			
					Walche			
					Waltersburg			15-50
MISSISSIPPIAN			West Baden	Cypress				80-100
					Ridenhower			25-65
					Bethel			70-100
					Downs Bluff			20-40
					Yanketown			30-45
			St. Louis	Renault	Shelville			10-35
					Levias			10-35
					Aux Vases			15-35
					Jappa			
					Kamak			
VALDESIAN			Mammoth Cave	Salem	Spor Mountain			140-180
					Fredonia			
			Knobs	Harrodsburg				60-300
DEVONIAN AND MISSISSIPPIAN			New Albany	Fort Payne				280-640
			Upper Devonian and Kinderhookian	Springville				450±
DEVONIAN			Huron	Grand Tower				350+
			Lower	Clear Creek				

EXPLANATION

PLEISTOCENE

RECENT

Qal Stream alluvium, includes some areas of low terrace
Silt, clay, sand, and gravel

WISCONSINIAN

Qw Intermediate terrace
Well bedded, calcareous, clayey silt; a few sandy lenses

Qh High terrace
Sand with occasional silt beds

PENNSYLVANIAN

Pt Spoon Formation
Shale of the lower part of the formation

Abolition Formation
Shale, sandstone, thin coal, top (ft) and base (ft) of Caseyville Sandstone, top (ft) and base (ft) of Pounds Sandstone and base (ft) of the Pounds Sandstone shown in some areas

MISSISSIPPIAN

Mk Kinkaid Formation
Gray, cherty limestone

Dg Degania Sandstone
Fine-grained sandstone, red and green shale, siltstone, and chert

Clare Formation
Gray shale, limestone, siltstone, and thin-bedded sandstone

Pp Palestine Sandstone
Fine-grained sandstone, mostly thin bedded, shale

Mn Menard Limestone
Dark, fine-grained, partly fossiliferous limestone, shale

Waltersburg Formation
Shale, cherty sandstone

Vn Vienna Limestone
Dark, fine-grained, partly cherty, locally calcareous limestone, shale

Ts Tar Springs Sandstone
Fine-grained, partly cross-bedded sandstone, shale

Gd Glen Dean Limestone
Fine to coarse-grained, fossiliferous, partly oolitic limestone, shale

Hs Harrodsburg Sandstone
Sandstone, upper part is interbedded with gray shale and sandstone

Gc Golconda Group
Heavy limestone—fine to coarse-grained, fossiliferous limestone; fossiliferous shale—shale, siltstone, some limestone, Beech Creek limestone—argillaceous, dark, fine to medium-grained limestone

Cs Cypress Sandstone
Fine-grained sandstone, shaly in upper part

Rf Ridenhower Formation
Interbedded, very-bedded shale and sandstone, soft, dark shale, light colored thin to medium bedded sandstone, thin, discontinuous limestone beds

Bt Bethel Sandstone
Light gray, fine to medium-grained sandstone, basal conglomerate

Db Downs Bluff Limestone
Medium-grained, crinoidal, locally oolitic limestone, some chert at top

Yk Yanketown Shale and the Renault Limestone
Yanketown Shale—calcareous, gray shale with thin siltstone and limestone beds; Shelville Member—gray, more or less oolitic limestone that grades to dark, fine-grained limestone at top

Lv Levia Member of the Renault Limestone
Light colored, oolitic, locally fine-grained limestone

Av Aux Vases Sandstone
Rosiclare Member—very fine-grained, very calcareous sandstone; siltstone; some sandy limestone; shale at base

St St. Genevieve Limestone
Gray to almost white, variable textured but largely oolitic limestone; thin, calcareous sandstone lenses

Sl St. Louis Limestone
Fine-grained, cherty limestone; partly oolitic in upper half

Sa Salem Limestone
Gray to almost black, argillaceous limestone, fossiliferous (6' color) with oolitic calcareous lower half has interbedded light-colored, coarse-grained fossiliferous limestone and cherty, dolomitic limestone—shaly limestone at base grades laterally to siltstone

Hs Harrodsburg Limestone
Light colored, crinoidal, brachiopod limestone

Fp Fort Payne Formation and Springville Shale
Calcareous siltstone, shaly, dark-colored limestone, cherty limestone; chert, Springville Shale or base

DEVONIAN AND MISSISSIPPIAN

Na New Albany Group
Dark gray to black shale

DEVONIAN

Dh Huron Limestone
Limestone and chert

IGNEOUS ROCKS

Dikes, sills, and breccias
Dikes are lamprophyres and microphyres; sills are lamprophyres; breccias are silicified and/or explosion types

ECONOMIC AND STRUCTURE DATA

Fault Dashed where inferred

Strike and dip of bedding

Mines and quarries

Mine shaft

Adit

SURFICIAL GEOLOGY OF THE
KARBERS RIDGE AND THE ILLINOIS
PART OF THE
ROSICLARE QUADRANGLES

Topographic base surveyed by the U.S. Geological Survey in cooperation with the Illinois State Geological Survey in 1927-1929.

Geologically surveyed by James W. Baxter and George A. Desborough assisted by David A. Schaefer and Albert D. Pernichle in 1960 and 1961