

Age	Formations	Thickness In Feet	Columner Section	Lithologic Character	Remarks	
Chester	Limestone of Batesville age unconformity	0-50		Non-cherty limestone.	Occurs only in extreme southeastern Kansas; unconformable above Warsaw limestone. Rocks of Chester age are probably present in southwestern Kansas.	
Meramec	Watchorn formation	0-690		Non-cherty white limestone with interbedded oolitic limestone and lithographic limestone.	Contains fossils of Spergen, St. Louis, and possibly Ste. Genevieve age. The Spergen and St. Louis limestones have been differentiated in two wells by the use of insoluble residues. Thick sections occur only in western Kansas. Outliers of lower part are present in eastern Kansas.	
	Warsaw limestone	0-75		Cherty white limestone and dolomite. Chert with matted silicified microfossils.		
	Cowley formation unconformity	0-464		Dark and gray silty dolomite. Dark cherty dolomite and limestone. Very glauconitic at base. Chert dark and matted locally.		
Osage	Keokuk limestone unconformity	0-130		White limestone with white rough and pitted chert and cotton rock. Contains oolitic limestone near top in some places.	Absent in many areas. In extreme southeastern Kansas replaces Burlington limestone and overlies Reeds Spring limestone.	
	Burlington limestone	0-165		Gray limestone and dolomite with even textured gray and white opaque chert. Extremely cherty in most areas. Considerable drusy quartz.	The most widely distributed Mississippian formation in Kansas.	
	Rocks of Fern Glen age	Reeds Spring limestone	0-155		Limestone and dolomite with much dark semi-translucent chert or limestone with small amounts of pale bluish semi-translucent chert.	Reeds Spring limestone is a variant of the upper part of the Fern Glen Limestone in Tri-State mining district. Grand Falls chert included.
		St. Joe limestone unconformity	0-90		Non-cherty limestone with green limy shale near base. Locally includes red limestone and red shale.	Limited to southeastern Kansas.
Osage or Kinderhook	Gilmore City limestone unconformity	0-120		Soft white non-cherty limestone. Contains oolitic or pseudo-oolitic limestone in some places.	Occurs in northeastern Kansas and probably in western Kansas.	
Kinderhook	Sedalia limestone	0-22		Sparsely cherty buff dolomite.	Occurs in northeastern Kansas.	
	Chouteau limestone	Northview shale	0-80		Very silty greenish calcareous shale. In Chouteau areas is very cherty impure limestone and dolomite.	Occurs in southeastern Kansas but grades northward into upper part of Chouteau limestone.
		Compton limestone local unconformity	0-50		Non-cherty fine textured limestone. In Chouteau areas becomes slightly cherty.	Occurs in southeastern Kansas. Included in lower part of Chouteau limestone.
Kinderhook	Chattanooga shale Kinderhook unconformity	0-260		Spore-bearing partly silty and micaceous shale; block in southeastern Kansas, becoming gray and greenish toward the north. Includes dolomitic zones locally. In some areas includes sandy shale or sandstone at base.	Present in most places east and south of central Kansas uplift. Locally absent on account of unconformities.	
	Pre-Chattanooga rocks			Mostly dolomite and limestone.	Devonian, Silurian, and Ordovician rocks underlie the Mississippian in different areas.	

Key

- Limestone
- Dolomite
- Shale
- Oolitic limestone
- Cherty limestone
- Unconformities