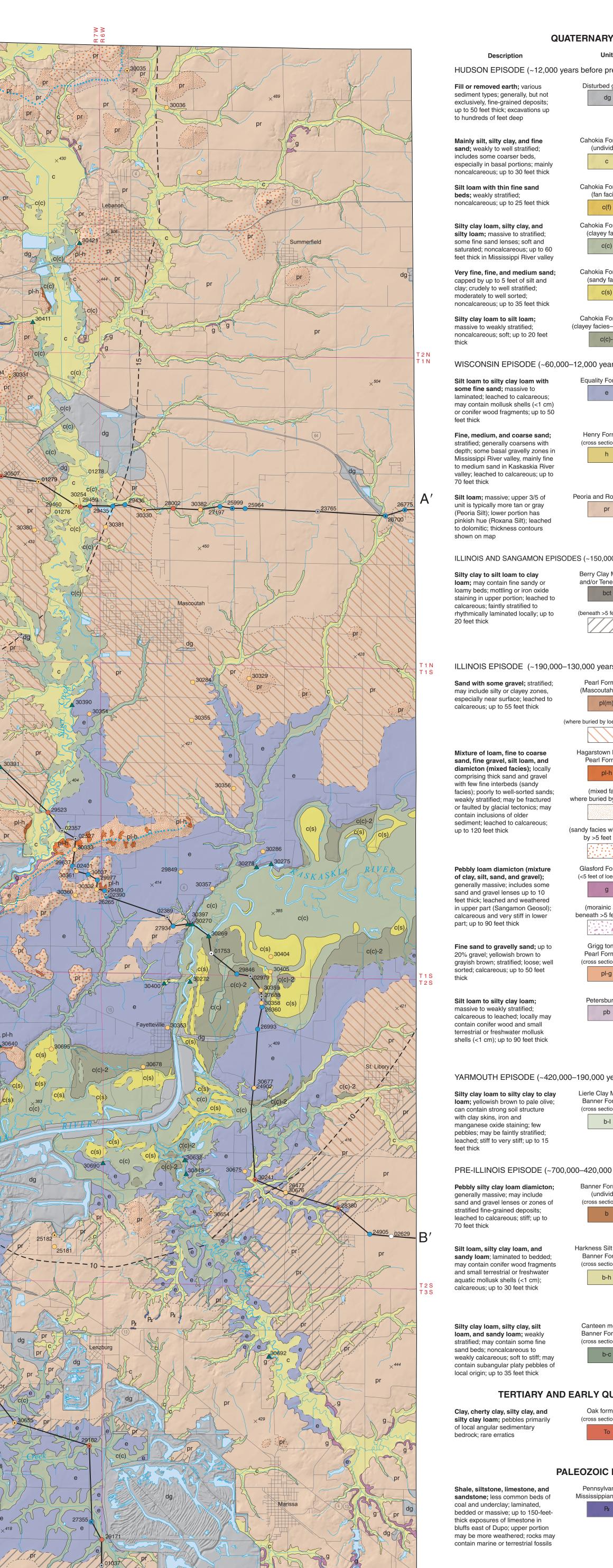


Illinois County Geologic Map ICGM St. Clair-SG



¹The time periods for the Wisconsin Episode and the Hudson Episode are reported as calibrated radiocarbon years and can be directly compared to calendar years before 1950 (Stuiver et al. 2005).

esent (B.P.	
ground	Man-made fill or excavations; includes former strip mines for coal, levee fills, dredged channel fill (Kaskaskia River valley), urban rubble; quarries, interstate interchanges, and road fill
rmation led)	Alluvium (stream deposits); mapped in floodplains of small to medium-sized tributary valleys; not mapped in Mississippi and Kaskaskia valleys
rmation es)	Alluvial fan deposits; mainly derived from resedimentation of thick, erodible loess deposits on east side of Mississippi River valley
mation cies)	Overbank alluvium, abandoned channel and swale fills; mapped in Mississippi and Kaskaskia valley floodplains and in valleys tributary to the Kaskaskia
mation ies)	Alluvium; point bar, natural levee, and channel deposits; mapped only in Mississippi and Kaskaskia valley floodplains
mation iigh level)	Overbank alluvium; within early to middle Holocene terrace at ~395 feet asl; mapped only in Kaskaskia River valley and adjacent tributaries
s B.P.) ¹	Lacustrine deposits; large area of deposits in glacial Lake Kaskaskia; slackwater origin during high levels of Mississippi River aggradation; in terraces at 410 to 425 feet asl in Kaskaskia River valley
nation ns only)	Outwash (glacial meltwater deposits); extensive in subsurface in the Mississippi River valley, localized deposits in the Kaskaskia River valley
ixana Silts	Loess (windblown silt); blankets all uplands; thins eastward from Mississippi River valley bluffs; thickest adjacent to broad portion of valley
–60,000 ye	ears B.P.)
fember iffe Silt	Accretionary deposits, alluvium, lake deposits, and loess; upper portions contain strong pedogenic alteration of the Sangamon Geosol (interglacial); diagonal line pattern shown for subsurface occurrences
	of late Illinois Episode lake or stream deposits (mainly Teneriffe Silt) below loess cover and where Pearl Formation is not present
B.P.) ation facies)	Outwash; common in loess-covered terraces along Silver
ss in terraces	Creek and along Kaskaskia River valley; below Cahokia Formation or in terraces ~430 to 440 feet asl;
Nember, nation	Ice-contact sediments; in ice-marginal areas, kames, or ice-walled channels; includes debris
cies	flows interspersed with subglacial o supraglacial outwash; locally includes ice-dammed lacustrine
>5' loess)	deposits and glaciotectonically faulted or deformed beds; stippled areas distinguish mainly sandy facies (ice-walled channels, fans) from mixed facies (moraines,
oess)	kames, other); contains Sangamon Geosol in upper 5 to 10 feet
mation s cover)	Till and ice-marginal deposits; includes subglacial and supraglacia deposits; contains Sangamon Geosol alteration in upper 5 to 10 feet; morainic areas stippled on map may contain sheared
et loess)	inclusions of older paleosol, sediments, or bedrock in the till
ue, ation s only)	Outwash; proglacial deposits from advancing Illinois Episode glaciers, subsequently buried by Glasford Formation diamicton
g Silt	Lacustrine sediment or loess; mainly slackwater lake deposits caused by aggradation in the Mississippi River valley or ice-marginal proglacial lakes caused by glacial ice blockage; loess occurs in western uplands
ears B.P.)	and typically <10 feet thick
Member, rmation ns only)	Accretionary deposits, alluvium, and lake sediment; accumulated ir closed depressions or lowlands; deposited and strongly weathered during the Yarmouth interglacial episode
years B.P.)
mation, ed) ns only)	Till and ice-marginal deposits; includes subglacial till and supragla cial debris flows; may include lake sediment or glaciofluvial sediment; includes Yarmouth Geosol alteratior in upper part but commonly
Member, rmation	truncated in the east Lacustrine deposits with deltaic and alluvial zones; deposited in
is only)	slackwater lakes resulting from pre-Illinois Episode glacial aggradation in the Mississippi River valley; typically found below 370 feet asl in bedrock valleys; alluvial and deltaic materials deposited
ember, mation	during periods of lower lake levels Preglacial alluvium and colluvium; occurs mainly in
s only)	preglacial bedrock valleys generally below 350 feet asl; matrix mineral composition and pebble lithology reflect local bedrock
	ARY DEPOSITS
ation ns only)	Residuum (bedrock weathered in situ) or paleosol complex; may include some Quaternary loess, dust, and perhaps thin till deposits that are highly weathered and indistinguishable from the residuum
BEDROC	к
nian or n bedrock	Bedrock outcrops or bedrock within 5 feet of land surface; most common in western areas of the county and localized along courses
	of east-flowing tributaries to Silver

Pennsylvanian bedrock exposures occur where creeks have incised into bed-

