

Silt, silt loam, and silty clay loam; dark gray to yellowish brown; massive; soft to friable; non-calcareous in uppermost part; generally calcareous in lower part; weak cemented, dark reddish brown, ferro- manganese oxide concretions are common; typical thickness 3–20 feet	Peoria and Roxana Silts (not on map; see figure 2 in accompanying report)	Proglacial eolian (wind- deposited) silt (loess) derived by wind erosion of clay and silt from outwash deposits as glacial floodwaters receded; blankets upland areas; gener- ally absent or very thin on floodplains and tributaries of the Kickapoo Creek drainage system; both silts succeed Glasford Formation; Roxana Silt may occur beneath Tiskilwa Formation, and Peoria Silt succeeds and intertongues with deposits of Henry Formation
Silt and clay; laminated to thin bedded, rarely massive; gray to olive-green; in places calcare- ous; contains interbeds of diamicton, sand, and gravel; may contain wood fragments and shells; typical thickness 5–10 feet	Equality Formation	Glacial and postglacial lake deposits infilling valleys, channels, or depressions on outwash and floodplains; interfingers and grades into alluvial and outwash deposits
Sand and interbedded gravel; stratified, thin to thick bedded, crossbedding common; medium- to very coarse-grained sand with scattered cobbles and boulders; yellow brown to grayish brown; very well to poorly sorted; clasts are mainly of carbonate, igneous, and metamorphic compositions, clasts of local bedrock less common; typical thickness 10–40 feet	Henry Formation (Mackinaw facies) h(m)	Proglacial fluvial (outwash) sediments deposited within and adjacent to the valley of Kickapoo Creek and Fargo Run; deposits (valley trains and terraces) formed as glacial meltwaters flowed from the melting and receding Wisconsin episode ice
Diamicton (clay loam to loam texture); massive; dark grayish brown to brown with a distinc- tive reddish cast; calcareous; firm; may contains thin beds of sand, silt, and clay; typical thickness 25–150 feet	Tiskilwa Formation t	Subglacial and ice-marginal sediments (till) deposited directly from Tiskilwa glacial ice; unconformably overlies Glasford Formation
ILLINOIS EPISODE (~200,000–130,000 years B.P.)		
Diamicton (sandy loam to silty clay loam texture); massive; yellowish brown to dark brownish gray; calcareous; firm to hard; contains thin interbeds of sand, silt, and clay; typical thickness 5–70 feet	Radnor Member, Glasford Formation g-r	Subglacial and ice-marginal sediments (till) deposited directly from Illinois Episode glacial ice; unconformably overlies bedrock
PRE-QUATERNARY DEPOSITS		
Description	Unit	Interpretation
Shale, sandstone, limestone, coal, and clay; bedding ranges from thin to thick; often includes a weathered profile at the bedrock surface	Pennsylvanian Carbondale Formation Pc	Strata deposited in fluvial to marine settings, including nearshore marine, estuarine, deltaic, fluvial, and swamp environments

Base map compiled by Illinois State Geological Survey from digital (Digital Line Graph) data provided by the United States Geological Survey. Compiled by photogrammetric methods from imagery dated 1969. Field checked 1971. Revised from imagery dated 1993, 1995, and other sources. Field checked 1996. Map edited 1997.

North American Datum of 1983 (NAD 83) Projection: Transverse Mercator 10,000-foot ticks: Illinois State Plane Coordinate system, west zone (Transverse Mercator) 1,000-meter ticks: Universal Transverse Mercator grid system, zone 16

Recommended citation:

Hardy, F., and C.P. Weibel, 2008, Surficial Geology of Dunlap Quadrangle, Peoria County, Il-linois: Illinois State Geological Survey, Illinois Preliminary Geologic Map, IPGM Dunlap-SG, 1:24,000, report, 3 p.

SCALE 1:24,000 1 MILE 2000 3000 4000 5000 6000 7000 FEET 1000 1 KILOMETER

> BASE MAP CONTOUR INTERVAL 20 FEET NATIONAL GEODETIC VERTICAL DATUM OF 1929

Released by the authority of the State of Illinois: 2008

Geology based on field work by C. Pius Weibel and François Hardy, 2000–2002.

Digital cartography by C. Pius Weibel, Jennifer E. Carrell, and Jane E.J. Domier, Illinois State Geological Survey.

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IPGM Dunlap-SG