

		Roxana occur at most locations; the Loveland Silt is often absent; loess units are largely distinguished by their pedogenic features); upper part contains Sangamon Geosol; indistinct boundaries between units; forms a terrace at the same level as e-2; lowland end member facies of Illinoian glacial sequence	
and to clay loam covered by ered silt loam to silty clay loam; is brown to mottled brown to trong pedogenic features and ch in upper 10 feet; leached to h of about 20 feet below the d surface; calcareous and d in lower part; commonly edded very fine sand, well with a few thin lenses of silty econdary calcite common in per part of the calcareous hickness uncertain, may range 50 feet thick; beds of coarser and gravel are expected near if unit	Pearl Formation pl	Glacial fluvial and lacustrine deposits of Illinoian age covered by 4 to 10 feet of loess; upper part contains Sangamon Geosol; forms several undifferentiated terrace levels above e-2 and tr units, separated by scarps in places producing a stepped geomorphic surface; a facies member between Teneriffe (tr) and Glasford stratified deposits (g(s)) in Illinoian glacial sequence of William- son County; formed during the next to the last glaciation (Illinoian) as the result of meltwater accumulation forming a large lake basin that later evolved into the modern Big Muddy River basin	
al features: Silty diamicton ated by silt loam and silty clay with variable amounts of clay, and pebbles; covered by 5 to a of weathered silty clay loam at locations; brown to gray with common yellowish and nottles; strong pedogenic as and more sand or clay in 5 feet; leached to a depth of 20 feet below the ground a; stratified in places; dark gray, at, and unoxidized in lower which commonly contains a wood, pyrite, and other able minerals; average ass of 20 to 30 feet and can d 100 feet thick in places; a content from <1 to 5%, ated by Pennsylvanian gies, mostly sandstone, quartz, and an assortment of crystal- cks	Glasford Formation (divided into two units)	General characteristics: Glacial till and associated water-laid and mass wasted deposits of Illinoian age covered by 5 to 10 feet of loess; largely derived from Pennsylvanian shale; forms a veneer of glacial drift deposits across the uplands of most of Williamson County and fills in preglacial valleys; loess cover thins on sloping land along the southern border of Williamson County; upper part contains Sangamon Geosol; divisible into two map units: Glasford stratified deposits (g(s)) and Glasford till (g); upland end member facies of Illinoian glacial sequence	
ied clay loam, silt loam to lay loam with lenses of sand amy diamicton; deformed ires and variable fabric and is; few fining-upward trends in overlying sparse pebble	Glasford stratified deposits g(s)	Ablation deposits; water trans- ported and glacial debris-flow deposits with soft-sediment deformation features; likely contains gravel at the base and overlies dense basal till where glacial deposits are thick; missing in places where loess overlies eroded bedrock (bench); laterally grades into till (g) or Pearl Formation sand (pl); largely restricted to discontinuous terrace levels (localized level areas) across the uplands at elevations from 420 up to 550 feet; formed on the Illinoian glacier after stagnation; temporary ice-walled lakes accumulated sediments that formed terraces now buried by loess; erosional benches common in some areas that form a continuous geomorphic surface with terraces	
lay loam diamicton that from pebbly silty clay to silt liamicton; very few pebbles in ; typical till fabric, compact and n	Glasford till g	Till; more dense and uniform than diamicton in g(s); underlies most of the gently rolling hills of the county; variable thickness ranging from a veneer of a few feet to over 100 feet thick in buried valleys; upland facies end member of Illinoian glacial sequence, made up of map units g, g(s), pl, and tr; discontinuous in places because of fluvial erosion or a pondenositional mode of the glacier	

SCALE 1:24,000									
	1/2			0					1 MILE
1000		1000	2000	3000	4000	5000	6000	7000 FEET	
1		.5		0			1 K	ILOMETER	

Williamson County surficial geology and 7.5-minute quadrangles.

IGQ Johnston City-SG