

Data is included from the following Quads:

Particle Size	Clay Mineralogy	Carbonate	Magnetic Susceptibility
Alton	Alton	Ames	Alton
Ames	Ames	Collinsville	Bethalto
Bethalto	Bethalto	Columbia	Breese
Breese	Breese	Edwardsville	Cahokia
Cahokia	Cahokia	Freeburg	Collinsville
Collinsville	Collinsville	French Village	Columbia
Columbia	Columbia	Grant Fork	Edwardsville
Edwardsville	Edwardsville	Lebanon	Grafton
Elsah	Elsah	Marine	Grant Fork
Freeburg	Freeburg	Mascoutah	Lebanon
French Village	French Village	Millstadt	Marine
Grafton	Grafton	Monks Mound	Mascoutah
Grant Fork	Grant Fork	Morgan	Millstadt
Lebanon	Highland	New Athens E	Monks Mound
Marine	Lebanon	New Athens W	Morgan
Mascoutah	Marine	New Douglas	New Athens E
Millstadt	Mascoutah	O'Fallon	New Athens W
Morgan	Millstadt	Paderborn	New Douglas
New Athens E	Monks Mound	Prairetown	O'Fallon
New Athens W	Morgan	Red Bud	Paderborn
New Douglas	New Athens E	St. Jacob	Prairetown
O'Fallon	New Athens W	Swarringin	Red Bud
Paderborn	New Douglas	Waterloo	Renault
Prairetown	O'Fallon	Wood River	St. Jacob
Red Bud	Paderborn	Worden	Swarringin
St. Jacob	Prairetown		Trenton
Swarringin	Red Bud		Waterloo
Trenton	Renault		Wood River
Waterloo	St. Jacob		Worden
Wood River	Swarringin		
Worden	Trenton		
	Waterloo		
	Wood River		
	Worden		

STRAT only

CROP only

in both STRAT and CROP

Note: Comparing samples described as a diamicton. Banner also includes Omphgent.

Particle Size (calcareous only)

Banner (n=94)				Glasford (n=277)			
	Clay	Silt	Sand		Clay	Silt	Sand
Mean	33	44	24	Mean	26	44	30
St Dev	7	9	9	St Dev	8	9	12
Max	58	66	59	Max	77	70	55
Min	14	17	6	Min	11	19	1
Median	33	42	24	Median	24	43	31

Carbonate (calcareous only)

Banner (n=161 & 18)				Glasford (n=282 & 107)			
	% Total Carbonate	% Calcite	% Dolomite		% Total Carbonate	% Calcite	% Dolomite
Mean	10	4	5	Mean	17	6	10
St Dev	5	4	2	St Dev	8	4	5
Max	25	14	11	Max	39	20	22
Min	1	1	2	Min	1	0	1
Median	10	3	5	Median	17	5	10

Clay Mineralogy (calcareous only)

Banner (n=141)				Glasford (n=317)			
	Illite*	K + C*	Expandables*		Illite*	K + C*	Expandables*
Mean	50	32	18	Mean	52	26	22
St Dev	9	8	12	St Dev	11	7	12
Max	72	77	41	Max	75	49	72
Min	21	16	-9	Min	16	3	0
Median	50	32	20	Median	53	26	21

*corrected for differences in Scintag and GE

Magnetic Susceptibility (calcareous only)				
Banner (n=391)			Glasford (n=795)	
	MS			MS
Mean	29		Mean	24
St Dev	11		St Dev	14
Max	69		Max	94
Min	6		Min	3
Median	28		Median	22









