United States
Department of
Agriculture

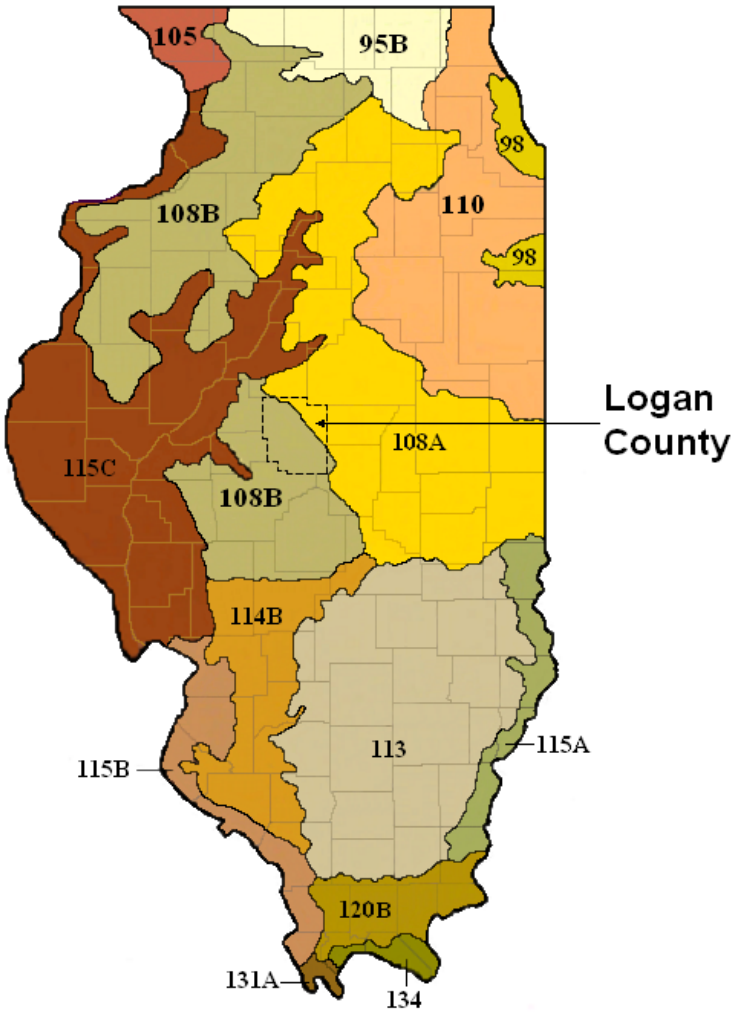
Natural Resources
Conservation Service

East Central Glaciated
Regional MLRA
Soil Survey Office
Indianapolis, IN

Classification and Correlation of Soils in Logan County, Illinois

A Subset of MLRA 108A and 108B

September 2006



LEGEND

95B	Southern Wisconsin and Northern Illinois Drift Plain
98	Southern Michigan and Northern Indiana Drift Plain
105	Northern Mississippi Valley Loess Hills
108A and B	Illinois and Iowa Deep Loess and Drift
110	Northern Illinois and Indiana Heavy Till Plain
113	Central Claypan Area
114B	Southern Illinois and Indiana Thin Loess and Till Plain, Western Part
115A, B, and C	Central Mississippi Valley Wooded Slopes
120B	Kentucky and Indiana Sandstone and Shale Hills and Valleys, Northwestern Part
131A	Southern Mississippi River Alluvium
134	Southern Mississippi Valley Loess

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Natural Resources Conservation Service

Classification and Correlation of the Soils of Logan County, Illinois

A Subset of MLRA 108A and 108B

September 2006

John C. Doll, MLRA Soil Survey Coordinator, Champaign, Illinois and Gary Struben, Soil Data Quality Specialist (SDQS) MLRA Region 11, Indianapolis, Indiana, prepared this correlation. Jim Hornickel, Project Leader for the Logan County Update, provided information relating to the recorrelation of the soils in Logan County. This document is prepared as part of the update of the Soil Survey of Logan County, a subset of MLRAs 108A and 108B. The correlation conference was held at the Springfield MLRA office on July 25-27, 2005. This correlation is based on decisions made at that conference. Decisions were based on documentation of field investigations, transect data, field notes, pedon descriptions, laboratory data, *Logan County Soils, Soil Report 39, University of Illinois* issued 1927, the Soil Survey of Logan County, United States Department of Agriculture, Soil Conservation Service, May 1974, and the soil identification legend in the "Classification and Correlation of the Soils of Logan County, Illinois," April 1968.

Headnote for detailed soil survey legend:

This update of Logan County, Illinois is a subset of the Soil Survey of Major Land Resource Areas (MLRA) 108A and 108B. Map units and their symbols and special and conventional symbols are consistent between subsets that are being updated. Map unit symbols consist of a combination of numbers and letters. The initial numbers represent the kind of soil. A capital letter following those numbers indicates the class of slope, except the letter “L” indicates long duration flooding, and the letter “S” indicates the presence of a sandy substratum. A plus sign (+) indicates an overwash phase. A final number of 2 following the slope letter indicates that the soil is moderately eroded, and a number 3 indicates that it is severely eroded. Absence of a number following the slope class indicates that the soil is slightly eroded or not eroded. Map unit symbols without a slope class letter are Miscellaneous units.

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
16	Rushville silt loam	16A	Rushville silt loam, 0 to 2 percent slopes
16A	Rushville silt loam, 0 to 2 percent slopes		
17	Keomah silt loam	17A	Keomah silt loam, 0 to 2 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes		
27D2	Miami silt loam, 10 to 18 percent slopes, eroded	27D2	Miami silt loam, 10 to 18 percent slopes, eroded
968D2	Birkbeck-Miami silt loams, 7 to 12 percent slopes, eroded		
36A	Tama silt loam, 0 to 2 percent slopes	36A	Tama silt loam, 0 to 2 percent slopes
36B	Tama silt loam, 2 to 4 percent slopes	36B	Tama silt loam, 2 to 5 percent slopes
36B	Tama silt loam, 2 to 5 percent slopes		
36C2	Tama silt loam, 5 to 10 percent slopes, eroded	36C2	Tama silt loam, 5 to 10 percent slopes, eroded
36C2	Tama silt loam, 4 to 7 percent slopes, eroded		
36D2	Tama silt loam, 7 to 12 percent slopes, eroded		
36D2	Tama silt loam, 10 to 18 percent slopes, eroded	36D2	Tama silt loam, 10 to 18 percent slopes, eroded
36D2	Tama silt loam, 7 to 12 percent slopes, eroded		
43	Ipava silt loam	43A	Ipava silt loam, 0 to 2 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes		
45	Denny silt loam	45A	Denny silt loam, 0 to 2 percent slopes
45A	Denny silt loam, 0 to 2 percent slopes		
67	Harpster silty clay loam	67A	Harpster silty clay loam, 0 to 2 percent slopes
67A	Harpster silty clay loam, 0 to 2 percent slopes		
68	Sable silty clay loam	68A	Sable silty clay loam, 0 to 2 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes		
36B	Tama silt loam, 2 to 4 percent slopes	86B	Osco silt loam, 2 to 5 percent slopes
86B	Osco silt loam, 2 to 5 percent slopes		
36C2	Tama silt loam, 4 to 7 percent slopes, eroded	86C2	Osco silt loam, 5 to 10 percent slopes, eroded
86C2	Osco silt loam, 5 to 10 percent slopes, eroded		
134C2	Camden silt loam, 5 to 10 percent slopes, eroded	134C2	Camden silt loam, 5 to 10 percent slopes, eroded
212C2	Thebes silt loam, 3 to 7 percent slopes, eroded		
134C3	Camden silty clay loam, 5 to 10 percent slopes, severely eroded	134C3	Camden silty clay loam, 5 to 10 percent slopes, severely eroded
212D3	Thebes silty clay loam, 7 to 12 percent slopes, severely eroded		

Field symbols	Field map unit name	Publication symbol	Approved map unit name
138	Shiloh silty clay loam	138A	Shiloh silty clay loam, 0 to 2 percent slopes
148B	Proctor silt loam, 2 to 5 percent slopes	148B	Proctor silt loam, 2 to 5 percent slopes
148B	Proctor silt loam, 2 to 4 percent slopes		
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded	148C2	Proctor silt loam, 5 to 10 percent slopes, eroded
148C2	Proctor silt loam, 4 to 7 percent slopes, eroded		
148D2	Proctor silt loam, 7 to 12 percent slopes, eroded	148D2	Proctor silt loam, 10 to 18 percent slopes, eroded
148D2	Proctor silt loam, 10 to 18 percent slopes, eroded		
149	Brenton silt loam	149A	Brenton silt loam, 0 to 2 percent slopes
149A	Brenton silt loam, 0 to 2 percent slopes		
152	Drummer silty clay loam	152A	Drummer silty clay loam, 0 to 2 percent slopes
152A	Drummer silty clay loam, 0 to 2 percent slopes		
159B	Pillot silt loam, 1 to 4 percent slopes	159B	Pillot silt loam, 2 to 5 percent slopes
159B	Pillot silt loam, 2 to 5 percent slopes		
159C2	Pillot silt loam, 4 to 10 percent slopes, eroded	159C2	Pillot silt loam, 5 to 10 percent slopes, eroded
159C2	Pillot silt loam, 5 to 10 percent slopes, eroded		
171B	Catlin silt loam, 2 to 4 percent slopes	171B	Catlin silt loam, 2 to 5 percent slopes
171B	Catlin silt loam, 2 to 5 percent slopes		
171C2	Catlin silt loam, 4 to 7 percent slopes, eroded	171C2	Catlin silt loam, 5 to 10 percent slopes, eroded
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded		
171D2	Catlin silt loam, 7 to 12 percent slopes, eroded	171D2	Catlin silt loam, 10 to 18 percent slopes, eroded
171D2	Catlin silt loam, 10 to 18 percent slopes, eroded		
45	Denny silt loam	191A	Knight silt loam, 0 to 2 percent slopes
136	Brooklyn silt loam		
136A	Brooklyn silt loam, 0 to 2 percent slopes		
191	Knight silt loam		
191A	Knight silt loam, 0 to 2 percent slopes		
41	Muscatine silt loam	198A	Elburn silt loam, 0 to 2 percent slopes
198	Elburn silt loam		
198A	Elburn silt loam, 0 to 2 percent slopes		
36A	Tama silt loam, 0 to 2 percent slopes	199A	Plano silt loam, 0 to 2 percent slopes
199A	Plano silt loam, 0 to 2 percent slopes		

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
199B	Plano silt loam, 2 to 4 percent slopes	199B	Plano silt loam, 2 to 5 percent slopes
199B	Plano silt loam, 2 to 5 percent slopes		
199C2	Plano silt loam, 5 to 10 percent slopes, eroded	199C2	Plano silt loam, 5 to 10 percent slopes, eroded
199C2	Plano silt loam, 4 to 7 percent slopes, eroded		
45	Denny silt loam	206A	Thorp silt loam, 0 to 2 percent slopes
191	Knight silt loam		
206A	Thorp silt loam, 0 to 2 percent slopes		
212C2	Thebes silt loam, 5 to 10 percent slopes, eroded	212C2	Thebes silt loam, 5 to 10 percent slopes, eroded
212C2	Thebes silt loam, 3 to 7 percent slopes, eroded		
212C3	Thebes silty clay loam, 5 to 10 percent slopes, severely eroded		
212D3	Thebes silty clay loam, 7 to 12 percent slopes, severely eroded		
233B	Birkbeck silt loam, 2 to 4 percent slopes	233B	Birkbeck silt loam, 2 to 5 percent slopes
233B	Birkbeck silt loam, 2 to 5 percent slopes		
233C2	Birkbeck silt loam, 5 to 10 percent slopes, eroded	233C2	Birkbeck silt loam, 5 to 10 percent slopes, eroded
233C2	Birkbeck silt loam, 4 to 7 percent slopes, eroded		
243A	St. Charles silt loam, 0 to 2 percent slopes	243A	St. Charles silt loam, 0 to 2 percent slopes
280	Fayette silt loam		
243B	St. Charles silt loam, 1 to 4 percent slopes	243B	St. Charles silt loam, 2 to 5 percent slopes
243B	St. Charles silt loam, 2 to 5 percent slopes		
243C2	St. Charles silt loam, 4 to 7 percent slopes, eroded	243C2	St. Charles silt loam, 5 to 10 percent slopes, eroded
243C2	St. Charles silt loam, 5 to 10 percent slopes, eroded		
244	Hartsburg silty clay loam	244A	Hartsburg silty clay loam, 0 to 2 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes		
257	Clarksdale silt loam	257A	Clarksdale silt loam, 0 to 2 percent slopes
257A	Clarksdale silt loam, 0 to 2 percent slopes		
45	Denny silt loam	272A	Edgington silt loam, 0 to 2 percent slopes
272A	Edgington silt loam, 0 to 2 percent slopes		
18A	Clinton silt loam, 0 to 2 percent slopes	279A	Rozetta silt loam, 0 to 2 percent slopes
279A	Rozetta silt loam, 0 to 2 percent slopes		
18B	Clinton silt loam, 2 to 4 percent slopes	279B	Rozetta silt loam, 2 to 5 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes		

Soil Correlation (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
18B	Clinton silt loam, 2 to 4 percent slopes	279B2	Rozetta silt loam, 2 to 5 percent slopes, eroded
279B2	Rozetta silt loam, 2 to 5 percent slopes, eroded		
18C2	Clinton silt loam, 4 to 7 percent slopes, eroded	279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded
18D2	Clinton silt loam, 7 to 12 percent slopes, eroded		
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded		
18D3	Clinton soils, 7 to 12 percent slopes, severely eroded	279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded
279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded		
18D2	Clinton silt loam, 7 to 12 percent slopes, eroded	279D2	Rozetta silt loam, 10 to 18 percent slopes, eroded
18D3	Clinton soils, 7 to 12 percent slopes, severely eroded		
18E2	Clinton silt loam, 12 to 18 percent slopes, eroded		
279D2	Rozetta silt loam, 10 to 18 percent slopes, eroded		
18C2	Clinton silt loam, 4 to 7 percent slopes, eroded	280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
18D2	Clinton silt loam, 7 to 12 percent slopes, eroded		
18D3	Clinton soils, 7 to 12 percent slopes, severely eroded		
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded		
280C3	Fayette silty clay loam, 5 to 10 percent slopes, severely eroded		
18D2	Clinton silt loam, 7 to 12 percent slopes, eroded	280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
18D3	Clinton soils, 7 to 12 percent slopes, severely eroded		
18E2	Clinton silt loam, 12 to 18 percent slopes, eroded		
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded		
148A	Proctor silt loam, 0 to 2 percent slopes	374A	Proctor silt loam, sandy substratum, 0 to 2 percent slopes
374A	Proctor silt loam, sandy substratum, 0 to 2 percent slopes		
533	Urban land	533	Urban land
ML	Made land		
567C2	Elkhart silt loam, 4 to 7 percent slopes, eroded	567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded		
567D2	Elkhart silt loam, 7 to 12 percent slopes, eroded		

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
618F	Senachwine silt loam, 18 to 35 percent slopes	618F	Senachwine silt loam, 18 to 35 percent slopes
964F	Hennepin and Miami soils, 18 to 60 percent slopes		
618G	Senachwine silt loam, 35 to 60 percent slopes		
221C2	Parr silt loam, 4 to 7 percent slopes, eroded	622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded		
221D2	Parr silt loam, 7 to 18 percent slopes, eroded	622D2	Wyanet silt loam, 10 to 18 percent slopes, eroded
622D2	Wyanet silt loam, 10 to 18 percent slopes, eroded		
148A	Proctor silt loam, 0 to 2 percent slopes	663A	Clare silt loam, 0 to 2 percent slopes
663A	Clare silt loam, 0 to 2 percent slopes		
683	Lawndale silt loam	683A	Lawndale silt loam, 0 to 2 percent slopes
683A	Lawndale silt loam, 0 to 2 percent slopes		
684A	Broadwell silt loam, 0 to 2 percent slopes	684A	Broadwell silt loam, 0 to 2 percent slopes
684B	Broadwell silt loam, 2 to 4 percent slopes	684B	Broadwell silt loam, 2 to 5 percent slopes
684B	Broadwell silt loam, 2 to 5 percent slopes		
36C2	Tama silt loam, 4 to 7 percent slopes, eroded	684C2	Broadwell silt loam, 5 to 10 percent slopes, eroded
684C2	Broadwell silt loam, 4 to 7 percent slopes, eroded		
684C2	Broadwell silt loam, 5 to 10 percent slopes, eroded		
684D2	Broadwell silt loam, 7 to 12 percent slopes, eroded		
685B	Middletown silt loam, 1 to 4 percent slopes	685B	Middletown silt loam, 2 to 5 percent slopes
685B	Middletown silt loam, 2 to 5 percent slopes		
685C2	Middletown silt loam, 5 to 10 percent slopes, eroded	685C2	Middletown silt loam, 5 to 10 percent slopes, eroded
685C2	Middletown silt loam, 4 to 7 percent slopes, eroded		
685D2	Middletown silt loam, 10 to 18 percent slopes, eroded	685D2	Middletown silt loam, 10 to 18 percent slopes, eroded
685D2	Middletown silt loam, 7 to 15 percent slopes, eroded		
36A	Tama silt loam, 0 to 2 percent slopes	705A	Buckhart silt loam, 0 to 2 percent slopes
705A	Buckhart silt loam, 0 to 2 percent slopes		
36B	Tama silt loam, 2 to 4 percent slopes	705B	Buckhart silt loam, 2 to 5 percent slopes
705B	Buckhart silt loam, 2 to 5 percent slopes		
67	Harpster silty clay loam	712A	Spaulding silty clay loam, 0 to 2 percent slopes
712A	Spaulding silty clay loam, 0 to 2 percent slopes		

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
683	Lawndale silt loam	726A	Elburn silt loam, sandy substratum, 0 to 2 percent slopes
726A	Elburn silt loam, sandy substratum, 0 to 2 percent slopes		
733C2	Birkbeck-Senachwine silt loams, 5 to 10 percent slopes, eroded	733C2	Birkbeck-Senachwine silt loams, 5 to 10 percent slopes, eroded
968D2	Birkbeck-Miami silt loams, 7 to 12 percent slopes, eroded		
733C3	Birkbeck-Senachwine complex, 5 to 10 percent slopes, severely eroded	733C3	Birkbeck-Senachwine complex, 5 to 10 percent slopes, severely eroded
968D3	Birkbeck-Miami complex, 7 to 12 percent slopes, severely eroded		
736D2	Senachwine-Russell silt loams, 10 to 18 percent slopes, eroded	736D2	Senachwine-Russell silt loams, 10 to 18 percent slopes, eroded
966E2	Miami-Russell silt loams, 12 to 18 percent slopes, eroded		
968D2	Birkbeck-Miami silt loams, 7 to 12 percent slopes, eroded		
968D3	Birkbeck-Miami complex, 7 to 12 percent slopes, severely eroded		
36A	Tama silt loam, 0 to 2 percent slopes	737A	Tama silt loam, very deep to sand, 0 to 2 percent slopes
737A	Tama silt loam, very deep to sand, 0 to 2 percent slopes		
199A	Plano silt loam, 0 to 2 percent slopes		
679A	Blackberry silt loam, 0 to 2 percent slopes		
36B	Tama silt loam, 2 to 4 percent slopes	737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes
737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes		
199B	Plano silt loam, 2 to 4 percent slopes		
679B	Blackberry silt loam, 2 to 5 percent slopes		
36C2	Tama silt loam, 4 to 7 percent slopes, eroded	737C2	Tama silt loam, very deep to sand, 5 to 10 percent slopes, eroded
36D2	Tama silt loam, 7 to 12 percent slopes, eroded		
737C2	Tama silt loam, very deep to sand, 5 to 10 percent slopes, eroded		
684A	Broadwell silt loam, 0 to 2 percent slopes	748A	Plano silt loam, sandy substratum, 0 to 2 percent slopes
748A	Plano silt loam, sandy substratum, 0 to 2 percent slopes		
684B	Broadwell silt loam, 2 to 4 percent slopes	748B	Plano silt loam, sandy substratum, 2 to 5 percent slopes
748B	Plano silt loam, sandy substratum, 2 to 5 percent slopes		
684C2	Broadwell silt loam, 4 to 7 percent slopes, eroded	748C2	Plano silt loam, sandy substratum, 5 to 10 percent slopes, eroded
748C2	Plano silt loam, sandy substratum, 5 to 10 percent slopes, eroded		
36B	Tama silt loam, 2 to 4 percent slopes	749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes
749B	Buckhart silt loam till substratum, 2 to 5 percent slopes		

Field symbols	Field map unit name	Publication symbol	Approved map unit name
802B BA	Orthents loamy, undulating Borrow areas	802B	Orthents loamy, undulating
802E BA	Orthents loamy, hilly Borrow areas	802E	Orthents loamy, hilly
827A 974A	Broadwell-Onarga complex, 0 to 2 percent slopes Dickinson-Onarga sandy loams, 0 to 2 percent slopes	827A	Broadwell-Onarga complex, 0 to 2 percent slopes
827B 974B	Broadwell-Onarga complex, 2 to 5 percent slopes Dickinson-Onarga sandy loams, 2 to 7 percent slopes	827B	Broadwell-Onarga complex, 2 to 5 percent slopes
827B2 974C2	Broadwell-Onarga complex, 2 to 5 percent slopes, eroded Dickinson-Onarga sandy loams, 2 to 7 percent slopes, eroded	827B2	Broadwell-Onarga complex, 2 to 5 percent slopes, eroded
828D2 974D2	Broadwell-Sparta complex, 7 to 15 percent slopes, eroded Dickinson-Onarga sandy loams, 7 to 15 percent slopes, eroded	828D2	Broadwell-Sparta complex, 7 to 15 percent slopes, eroded
830 ML	Landfills Made land	830	Landfills
861B2 975C2	Princeton-Bloomfield fine sands, 1 to 7 percent slopes, eroded Alvin-Lamont sandy loams, 2 to 6 percent slopes, eroded	861B2	Princeton-Bloomfield fine sands, 1 to 7 percent slopes, eroded
212D3 684D2 861D2 975D2	Thebes silty clay loam, 7 to 12 percent slopes, severely eroded Broadwell silt loam, 7 to 12 percent slopes, eroded Princeton-Bloomfield fine sands, 7 to 15 percent slopes, eroded Alvin-Lamont sandy loams, 7 to 12 percent slopes, eroded	861D2	Princeton-Bloomfield fine sands, 7 to 15 percent slopes, eroded
212E2 861F 975E	Thebes silt loam, 12 to 35 percent slopes, eroded Princeton-Bloomfield fine sands, 15 to 35 percent slopes Alvin-Lamont sandy loams, 12 to 30 percent slopes	861F	Princeton-Bloomfield fine sands, 15 to 35 percent slopes
864 QU	Pits, quarries Limestone quarry	864	Pits, quarries
865 GP	Pits, gravel Gravel pits	865	Pits, gravel

Soil Correlation (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
871B	Lenzburg silt loam, 1 to 7 percent slopes	871B	Lenzburg silt loam, 1 to 7 percent slopes
GP	Gravel pits		
QU	Limestone quarry		
871D	Lenzburg silty clay loam, 7 to 20 percent slopes	871D	Lenzburg silty clay loam, 7 to 20 percent slopes
871G	Lenzburg silty clay loam, 20 to 60 percent slopes		
GP	Gravel pits		
QU	Limestone quarry		
898F2	Hickory-Sylvan complex, 18 to 35 percent slopes, eroded	898F2	Hickory-Sylvan complex, 18 to 35 percent slopes, eroded
898G	Hickory-Sylvan silt loams, 35 to 60 percent slopes		
963F2	Hickory and Sylvan soils, 15 to 50 percent slopes, eroded		
965C2	Tallula-Bold silt loams, 5 to 10 percent slopes, eroded	965C2	Tallula-Bold silt loams, 5 to 10 percent slopes, eroded
965D2	Tallula-Bold silt loams, 6 to 15 percent slopes, eroded		
567D2	Elkhart silt loam, 7 to 12 percent slopes, eroded	965D2	Tallula-Bold silt loams, 10 to 18 percent slopes, eroded
965D2	Tallula-Bold silt loams, 6 to 15 percent slopes, eroded		
965D2	Tallula-Bold silt loams, 10 to 18 percent slopes, eroded		
73	Ross loam	3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
3073A	Ross loam silt loam, 0 to 2 percent slopes, frequently flooded		
74	Radford silt loam	3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded		
77	Huntsville silt loam	3077A	Huntsville silt loam, 0 to 2 percent slopes, frequently flooded
3077A	Huntsville silt loam, 0 to 2 percent slopes, frequently flooded		
107+	Sawmill silt loam, overwash	3107+	Sawmill silt loam, overwash, 0 to 2 percent slopes, frequently flooded
3107+	Sawmill silt loam, overwash, 0 to 2 percent slopes, frequently flooded		
107	Sawmill silty clay loam	3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded		
107	Sawmill silty clay loam	3107S	Sawmill silty clay loam, sandy substratum, 0 to 2 percent slopes, frequently flooded
3107S	Sawmill silty clay loam, sandy substratum, 0 to 2 percent slopes, frequently flooded		
284	Tice silty clay loam	3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded		

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
284 3284S	Tice silty clay loam Tice silty clay loam, sandy substratum, 0 to 2 percent slopes, frequently flooded	3284S	Tice silty clay loam, sandy substratum, 0 to 2 percent slopes, frequently flooded
974A 3304A	Dickinson-Onarga sandy loams, 0 to 2 percent slopes Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded	3304A	Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded
138 3405A	Shiloh silty clay loam Zook silty clay loam, 0 to 2 percent slopes, frequently flooded	3405A	Zook silty clay loam, 0 to 2 percent slopes, frequently flooded
BA 3408A	Borrow areas Aquents, loamy, level, frequently flooded	3408A	Aquents, loamy, level, frequently flooded
451 3451A	Lawson silt loam Lawson silt loam, 0 to 2 percent slopes, frequently flooded	3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
148A 7148A	Proctor silt loam, 0 to 2 percent slopes Proctor silt loam, 0 to 2 percent slopes, rarely flooded	7148A	Proctor silt loam, 0 to 2 percent slopes, rarely flooded
191 7191A	Knight silt loam Knight silt loam, 0 to 2 percent slopes, rarely flooded	7191A	Knight silt loam, 0 to 2 percent slopes, rarely flooded
198 7198A	Elburn silt loam Elburn silt loam, 0 to 2 percent slopes, rarely flooded	7198A	Elburn silt loam, 0 to 2 percent slopes, rarely flooded
199A 7199A	Plano silt loam, 0 to 2 percent slopes Plano silt loam, 0 to 2 percent slopes, rarely flooded	7199A	Plano silt loam, 0 to 2 percent slopes, rarely flooded
974A 7304A	Dickinson-Onarga sandy loams, 0 to 2 percent slopes Landes fine sandy loam, 0 to 2 percent slopes, rarely flooded	7304A	Landes fine sandy loam, 0 to 2 percent slopes, rarely flooded
74 8074A	Radford silt loam Radford silt loam, 0 to 2 percent slopes, occasionally flooded	8074A	Radford silt loam, 0 to 2 percent slopes, occasionally flooded
107+ 8107+	Sawmill silt loam, overwash Sawmill silt loam, overwash, 0 to 2 percent slopes, occasionally flooded	8107+	Sawmill silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
107 8107A	Sawmill silty clay loam Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded	8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded
284 8284A	Tice silty clay loam Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded	8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded

Soil Correlation (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
451	Lawson silt loam	8451A	Lawson silt loam, 0 to 2 percent slopes, occasionally flooded
8451A	Lawson silt loam, 0 to 2 percent slopes, occasionally flooded		
149	Brenton silt loam	8452A	Riley loam, 0 to 2 percent slopes, occasionally flooded
974A	Dickinson-Onarga sandy loams, 0 to 2 percent slopes		
8452A	Riley loam, 0 to 2 percent slopes, occasionally flooded		
M-W	Miscellaneous water	M-W	Miscellaneous water
W	Water		
536	Dumps, mine		
MD	Mine dumps		
W	Water	W	Water

Series established by this correlation: None

Series made inactive: None

Series added to the previously correlated legend (April, 1968):
Bloomfield, Buckhart, Camden, Clare, Edgington, Landes, Lenzburg, Princeton, Osco, Riley, Rozetta, Senachwine, Sparta, Spaulding, Thorp, Wyanet, and Zook.

Series dropped from the previously correlated legend (April, 1968):
Alvin, Brooklyn, Clinton, Dickinson, Lamont, Muscatine, Parr, and Hennepin.

Verification of exact cooperator names:
For the front cover and half-title page: United States Department of Agriculture
Natural Resources Conservation Service
in Cooperation with the
Illinois Agricultural Experiment Station

The cooperators to be listed on the inside of the front cover are the same as those on the front cover and in addition state: "This soil survey update is part of the technical assistance provided to the Logan County Soil and Water Conservation District. Financial assistance was made available by the Logan County Board and the Illinois Department of Agriculture."

Prior soil survey publication:
The last soil survey of Logan County was completed in 1968 and published by the United States Department of Agriculture, Soil Conservation Service in 1974. The publication is titled "The Soil Survey of Logan County". Reference to the prior soil survey will be included in the literature citation of the manuscript.

This update survey replaces the prior soil survey and provides additional data, updated soil interpretations, and digital soil maps at a 1:12,000 scale on an orthophoto base.

Join statement:
Logan County joins seven other counties.
Menard County – Update survey certified 2005.
Dewitt County – Update survey certified 2006.
Macon County – This soil survey is currently being updated.
McLean County – Update survey certified 2004. McLean Co. will change one unit of 86A to 199A to join Logan Co.
Mason County – Modern soil survey (1995) This county needs to be updated in the future and will accept map units from Logan County at that time. The correlation document will not be amended at this time.
Sangamon County – Update survey certified 2002. Sangamon Co. will change the 567C2 that joins Logan Co. to 86C2.
Tazewell County – Modern soil survey (1996) This county needs to be updated in the future and will accept map units from Logan County at that time. The correlation document will not be amended at this time.

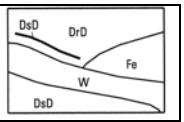
An exact join will be completed with the updated Dewitt, Macon, McLean, Menard and Sangamon County soil surveys. An acceptable join will be completed with Mason and Tazewell counties.

Disposition of field sheets:
1:12,000 scale orthophoto quarter quad maps, with 1998 imagery, serve as the base maps for the update soil survey of Logan County. The 1974 soil survey lines and map units were orthorectified on to this photography while taking into consideration, advances in soil science, new soil series, topographic maps and extensive field investigations. Publication scale is 1:12,000 according to SSURGO standards. Copies of a computer tape of the final digital product will remain at the Illinois NRCS state office. Digital spatial and attribute data will be provided to the Logan County Board as a part of the cost share cooperative agreement.

Conventional and Special Symbols Legend:
Only those symbols indicated on the NRCS-Soils-37A will be shown on the legend and placed on the soil maps.

NRCS-SOI-37a REVISED MAY 2001 Soil Survey Area: LOGAN COUNTY State: ILLINOIS	**FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY**	U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE Date: September, 2006

SOIL SURVEY FEATURES

SOIL DELINEATIONS AND LABELS	

STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES

Non-bedrock escarpment	^v^v^v^v^v^v^v^
Gravely spot	∴
Sandy spot	⁙
Severely eroded spot	≑
Wet spot	⚶

AD HOC FEATURES

GSP	26	⊕
CSP	29	⊠

CULTURAL FEATURES

County or parish	— – —
Field sheet matchline and neatline	—
Public Land Survey System Section Corner Tics.	∟ ⊥ ┼

TRANSPORTATION (None)

ROAD EMBLEMS

Interstate	
Federal	
State	

LOCATED OBJECTS (None)

HYDROGRAPHIC FEATURES (None)

Special Symbols for Soil Survey and SSURGO – Codes and Definitions
for Logan County, Illinois

Description	Label	Major Code	Minor Code	Definitions and Guidelines
Cultural Features				
Federal, and State Road Emblems				Use appropriate symbols for federal and state roads. Other roads will not be labeled.
Landform Features				**Descriptions for Standard landform and miscellaneous surface features**
Escarpment, nonbedrock	ESO	900	206	A relatively continuous and steep slope or cliff, which was produced by erosion or faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
Gravelly spot	GRA	900	310	A spot where the surface layer has more than 35 percent , by volume, rock fragments that are mostly less than 3 inches in diameter in an area with less than 15 percent fragments. Typically 0.25 to 2 acres in size.
Sandy spot	SAN	900	313	A spot where the surface layer is a loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 0.25 to 2 acres.
Severely eroded spot	ERO	900	314	An area where on the average 75 percent or more of the original surface layer has been lost from accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 0.25 to 2 acres.
Wet spot	WET	905	330	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.25 to 2 acres.
Ad Hoc features				**Descriptions for Ad Hoc Features**
Calcareous spot	CSP	998	29	An area where the soil surface layer is calcareous (reacts to 1N HCL) in areas where the surface layer of the named soils do not react. Typically 0.25 to 2 acres in size.
Grey spot	GSP	998	26	An area where the surface layer is mixed with a light colored subsurface layer, and the surrounding soils do not contain a light colored subsurface layer. These areas are in poorly drained or very poorly drained depressions. Typically ¼ to 2 acres.

Conversion Legend
for the Update Soil Survey of Logan County, Illinois

Field symbols	Publi- cation symbol
16	16A
16A	16A
17	17A
17A	17A
18A	279A
18B	279B
18B	279B2
18C2	279C2
18C2	280C2
18D2	279C2
18D2	279D2
18D2	280C2
18D2	280D2
18D3	279C3
18D3	279D2
18D3	280C2
18D3	280D2
18E2	279D2
18E2	280D2
27D2	27D2
36A	36A
36A	199A
36A	705A
36A	737A
36B	36B
36B	86B
36B	705B
36B	737B
36B	749B
36C2	36C2
36C2	86C2
36C2	684C2
36C2	737C2
36D2	36C2
36D2	36D2
36D2	737C2
41	198A
43	43A
43A	43A
45	45A
45	191A
45	206A
45	272A
45A	45A

Field symbols	Publi- cation symbol
67	67A
67	712A
67A	67A
68	68A
68A	68A
73	3073A
74	3074A
74	8074A
77	3077A
86B	86B
86C2	86C2
107	3107A
107	3107S
107	8107A
107+	3107+
107+	8107+
134C2	134C2
134C3	134C3
136	191A
136A	191A
138	138A
138	3405A
138A	138A
148A	374A
148A	663A
148A	7148A
148B	148B
148C2	148C2
148D2	148D2
149	149A
149	8452A
149A	149A
152	152A
152A	152A
159B	159B
159C2	159C2
159C2	159C2
171B	171B
171C2	171C2
171D2	171D2
191	191A
191	206A
191	7191A

Field symbols	Publi- cation symbol
191A	191A
198	198A
198	7198A
198A	198A
199A	199A
199A	737A
199A	7199A
199B	199B
199B	737B
199C2	199C2
206A	206A
212C2	134C2
212C2	212C2
212C3	212C2
212D3	134C3
212D3	212C2
212D3	861D2
212E2	861F
221C2	622C2
221D2	622D2
233B	233B
233C2	233C2
243A	243A
243B	243B
243C2	243C2
244	244A
244A	244A
257	257A
257A	257A
272A	272A
279A	279A
279B	279B
279B2	279B2
279C2	279C2
279C3	279C3
279D2	279D2
280	243A
280C2	280C2
280C3	280C2
280D2	280D2
284	3284A
284	3284S
284	8284A

Field symbols	Publi- cation symbol
374A	374A
451	3451A
451	8451A
533	533
536	M-W
567C2	567C2
567D2	567C2
567D2	965D2
618F	618F
618G	618F
622C2	622C2
622D2	622D2
663A	663A
679A	737A
679B	737B
683	683A
683	726A
683A	683A
684A	684A
684A	748A
684B	684B
684B	748B
684C2	684C2
684C2	748C2
684D2	684C2
684D2	861D2
685B	685B
685C2	685C2
685D2	685D2
705A	705A
705B	705B
705B	749B
712A	712A
726A	726A
733C2	733C2
733C3	733C3
736D2	736D2
737A	737A
737B	737B
737C2	737C2
748A	748A
748B	748B

Field symbols	Publi- cation symbol
748C2	748C2
749B	749B
802B	802B
802E	802E
827A	827A
827B	827B
827B2	827B2
828D2	828D2
830	830
861B2	861B2
861D2	861D2
861F	861F
864	864
865	865
871B	871B
871D	871D
871G	871D
898F2	898F2
898G	898F2
963F2	898F2
964F	618F
965C2	965C2
965D2	965C2
965D2	965D2
965D2	965D2
966E2	736D2
968D2	27D2
968D2	733C2
968D2	736D2
968D3	733C3
968D3	736D2
974A	827A
974A	3304A
974A	7304A
974A	8452A
974B	827B
974C2	827B2
974D2	828D2
975C2	861B2
975D2	861D2
975E	861F
3073A	3073A

Field symbols	Publi- cation symbol
3074A	3074A
3077A	3077A
3107+	3107+
3107A	3107A
3107S	3107S
3284A	3284A
3284S	3284S
3304A	3304A
3405A	3405A
3408A	3408A
3451A	3451A
7148A	7148A
7191A	7191A
7198A	7198A
7199A	7199A
7304A	7304A
8074A	8074A
8107+	8107+
8107A	8107A
8284A	8284A
8451A	8451A
8452A	8452A
BA	802B
BA	802E
BA	3408A
GP	865
GP	871B
GP	871D
MD	M-W
ML	533
ML	830
M-W	M-W
QU	864
QU	871B
QU	871D
W	M-W
W	W

NUMERICAL SOIL MAP LEGEND
Logan County, Illinois

Map symbol	Soil name
16A	Rushville silt loam, 0 to 2 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes
27D2	Miami silt loam, 10 to 18 percent slopes, eroded
36A	Tama silt loam, 0 to 2 percent slopes
36B	Tama silt loam, 2 to 5 percent slopes
36C2	Tama silt loam, 5 to 10 percent slopes, eroded
36D2	Tama silt loam, 10 to 18 percent slopes, eroded
43A	Ipava silt loam, 0 to 2 percent slopes
45A	Denny silt loam, 0 to 2 percent slopes
67A	Harpster silty clay loam, 0 to 2 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes
86B	Osco silt loam, 2 to 5 percent slopes
86C2	Osco silt loam, 5 to 10 percent slopes, eroded
134C2	Camden silt loam, 5 to 10 percent slopes, eroded
134C3	Camden silty clay loam, 5 to 10 percent slopes, severely eroded
138A	Shiloh silty clay loam, 0 to 2 percent slopes
148B	Proctor silt loam, 2 to 5 percent slopes
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded
148D2	Proctor silt loam, 10 to 18 percent slopes, eroded
149A	Brenton silt loam, 0 to 2 percent slopes
152A	Drummer silty clay loam, 0 to 2 percent slopes
159B	Pillot silt loam, 2 to 5 percent slopes
159C2	Pillot silt loam, 5 to 10 percent slopes, eroded
171B	Catlin silt loam, 2 to 5 percent slopes
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded
171D2	Catlin silt loam, 10 to 18 percent slopes, eroded
191A	Knight silt loam, 0 to 2 percent slopes
198A	Elburn silt loam, 0 to 2 percent slopes
199A	Plano silt loam, 0 to 2 percent slopes
199B	Plano silt loam, 2 to 5 percent slopes
199C2	Plano silt loam, 5 to 10 percent slopes, eroded
206A	Thorp silt loam, 0 to 2 percent slopes
212C2	Thebes silt loam, 5 to 10 percent slopes, eroded
233B	Birkbeck silt loam, 2 to 5 percent slopes
233C2	Birkbeck silt loam, 5 to 10 percent slopes, eroded
243A	St. Charles silt loam, 0 to 2 percent slopes
243B	St. Charles silt loam, 2 to 5 percent slopes
243C2	St. Charles silt loam, 5 to 10 percent slopes, eroded
244A	Hartsburg silty clay loam, 0 to 2 percent slopes
257A	Clarksdale silt loam, 0 to 2 percent slopes
272A	Edgington silt loam, 0 to 2 percent slopes
279A	Rozetta silt loam, 0 to 2 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes
279B2	Rozetta silt loam, 2 to 5 percent slopes, eroded
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded
279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded
279D2	Rozetta silt loam, 10 to 18 percent slopes, eroded
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
374A	Proctor silt loam, sandy substratum, 0 to 2 percent slopes
533	Urban land
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
618F	Senachwine silt loam, 18 to 35 percent slopes
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded

Map symbol	Soil name
622D2	Wyanet silt loam, 10 to 18 percent slopes, eroded
663A	Clare silt loam, 0 to 2 percent slopes
683A	Lawndale silt loam, 0 to 2 percent slopes
684A	Broadwell silt loam, 0 to 2 percent slopes
684B	Broadwell silt loam, 2 to 5 percent slopes
684C2	Broadwell silt loam, 5 to 10 percent slopes, eroded
685B	Middletown silt loam, 2 to 5 percent slopes
685C2	Middletown silt loam, 5 to 10 percent slopes, eroded
685D2	Middletown silt loam, 10 to 18 percent slopes, eroded
705A	Buckhart silt loam, 0 to 2 percent slopes
705B	Buckhart silt loam, 2 to 5 percent slopes
712A	Spaulding silty clay loam, 0 to 2 percent slopes
726A	Elburn silt loam, sandy substratum, 0 to 2 percent slopes
733C2	Birkbeck-Senachwine silt loams, 5 to 10 percent slopes, eroded
733C3	Birkbeck-Senachwine complex, 5 to 10 percent slopes, severely eroded
736D2	Senachwine-Russell silt loams, 10 to 18 percent slopes, eroded
737A	Tama silt loam, very deep to sand, 0 to 2 percent slopes
737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes
737C2	Tama silt loam, very deep to sand, 5 to 10 percent slopes, eroded
748A	Plano silt loam, sandy substratum, 0 to 2 percent slopes
748B	Plano silt loam, sandy substratum, 2 to 5 percent slopes
748C2	Plano silt loam, sandy substratum, 5 to 10 percent slopes, eroded
749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes
802B	Orthents loamy, undulating
802E	Orthents loamy, hilly
827A	Broadwell-Onarga complex, 0 to 2 percent slopes
827B	Broadwell-Onarga complex, 2 to 5 percent slopes
827B2	Broadwell-Onarga complex, 2 to 5 percent slopes, eroded
828D2	Broadwell-Sparta complex, 7 to 15 percent slopes, eroded
830	Landfills
861B2	Princeton-Bloomfield fine sands, 1 to 7 percent slopes, eroded
861D2	Princeton-Bloomfield fine sands, 7 to 15 percent slopes, eroded
861F	Princeton-Bloomfield fine sands, 15 to 35 percent slopes
864	Pits, quarries
865	Pits, gravel
871B	Lenzburg silt loam, 1 to 7 percent slopes
871D	Lenzburg silty clay loam, 7 to 20 percent slopes
898F2	Hickory-Sylvan complex, 18 to 35 percent slopes, eroded
965C2	Tallula-Bold silt loams, 5 to 10 percent slopes, eroded
965D2	Tallula-Bold silt loams, 10 to 18 percent slopes, eroded
3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
3077A	Huntsville silt loam, 0 to 2 percent slopes, frequently flooded
3107+	Sawmill silt loam, overwash, 0 to 2 percent slopes, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
3107S	Sawmill silty clay loam, sandy substratum, 0 to 2 percent slopes, frequently flooded
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
3284S	Tice silty clay loam, sandy substratum, 0 to 2 percent slopes, frequently flooded
3304A	Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded
3405A	Zook silty clay loam, 0 to 2 percent slopes, frequently flooded
3408A	Aquents, loamy, level, frequently flooded
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
7148A	Proctor silt loam, 0 to 2 percent slopes, rarely flooded

NUMERICAL SOIL MAP LEGEND (continued)

Map symbol	Soil name
7191A	Knight silt loam, 0 to 2 percent slopes, rarely flooded
7198A	Elburn silt loam, 0 to 2 percent slopes, rarely flooded
7199A	Plano silt loam, 0 to 2 percent slopes, rarely flooded
7304A	Landes fine sandy loam, 0 to 2 percent slopes, rarely flooded
8074A	Radford silt loam, 0 to 2 percent slopes, occasionally flooded
8107+	Sawmill silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
8451A	Lawson silt loam, 0 to 2 percent slopes, occasionally flooded
8452A	Riley loam, 0 to 2 percent slopes, occasionally flooded
M-W	Miscellaneous water
W	Water

ALPHABETICAL SOIL MAP LEGEND
Logan County, Illinois

Map symbol	Soil name
3408A	Aquents, loamy, level, frequently flooded
233B	Birkbeck silt loam, 2 to 5 percent slopes
233C2	Birkbeck silt loam, 5 to 10 percent slopes, eroded
733C3	Birkbeck-Senachwine complex, 5 to 10 percent slopes, severely eroded
733C2	Birkbeck-Senachwine silt loams, 5 to 10 percent slopes, eroded
149A	Brenton silt loam, 0 to 2 percent slopes
684A	Broadwell silt loam, 0 to 2 percent slopes
684B	Broadwell silt loam, 2 to 5 percent slopes
684C2	Broadwell silt loam, 5 to 10 percent slopes, eroded
827A	Broadwell-Onarga complex, 0 to 2 percent slopes
827B	Broadwell-Onarga complex, 2 to 5 percent slopes
827B2	Broadwell-Onarga complex, 2 to 5 percent slopes, eroded
828D2	Broadwell-Sparta complex, 7 to 15 percent slopes, eroded
705A	Buckhart silt loam, 0 to 2 percent slopes
705B	Buckhart silt loam, 2 to 5 percent slopes
749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes
134C2	Camden silt loam, 5 to 10 percent slopes, eroded
134C3	Camden silty clay loam, 5 to 10 percent slopes, severely eroded
171D2	Catlin silt loam, 10 to 18 percent slopes, eroded
171B	Catlin silt loam, 2 to 5 percent slopes
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded
663A	Clare silt loam, 0 to 2 percent slopes
257A	Clarksdale silt loam, 0 to 2 percent slopes
45A	Denny silt loam, 0 to 2 percent slopes
152A	Drummer silty clay loam, 0 to 2 percent slopes
272A	Edgington silt loam, 0 to 2 percent slopes
198A	Elburn silt loam, 0 to 2 percent slopes
7198A	Elburn silt loam, 0 to 2 percent slopes, rarely flooded
726A	Elburn silt loam, sandy substratum, 0 to 2 percent slopes
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
67A	Harpster silty clay loam, 0 to 2 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes
898F2	Hickory-Sylvan complex, 18 to 35 percent slopes, eroded
3077A	Huntsville silt loam, 0 to 2 percent slopes, frequently flooded
43A	Ipava silt loam, 0 to 2 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes
191A	Knight silt loam, 0 to 2 percent slopes
7191A	Knight silt loam, 0 to 2 percent slopes, rarely flooded
3304A	Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded
7304A	Landes fine sandy loam, 0 to 2 percent slopes, rarely flooded
830	Landfills
683A	Lawndale silt loam, 0 to 2 percent slopes
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
8451A	Lawson silt loam, 0 to 2 percent slopes, occasionally flooded
871B	Lenzburg silt loam, 1 to 7 percent slopes
871D	Lenzburg silty clay loam, 7 to 20 percent slopes
27D2	Miami silt loam, 10 to 18 percent slopes, eroded
685D2	Middletown silt loam, 10 to 18 percent slopes, eroded
685B	Middletown silt loam, 2 to 5 percent slopes
685C2	Middletown silt loam, 5 to 10 percent slopes, eroded
M-W	Miscellaneous water
802E	Orthents loamy, hilly

ALPHABETICAL SOIL MAP LEGEND(continued)

Map symbol	Soil name
802B	Orthents loamy, undulating
86B	Osco silt loam, 2 to 5 percent slopes
86C2	Osco silt loam, 5 to 10 percent slopes, eroded
159B	Pillot silt loam, 2 to 5 percent slopes
159C2	Pillot silt loam, 5 to 10 percent slopes, eroded
865	Pits, gravel
864	Pits, quarries
199A	Plano silt loam, 0 to 2 percent slopes
7199A	Plano silt loam, 0 to 2 percent slopes, rarely flooded
199B	Plano silt loam, 2 to 5 percent slopes
199C2	Plano silt loam, 5 to 10 percent slopes, eroded
748A	Plano silt loam, sandy substratum, 0 to 2 percent slopes
748B	Plano silt loam, sandy substratum, 2 to 5 percent slopes
748C2	Plano silt loam, sandy substratum, 5 to 10 percent slopes, eroded
861B2	Princeton-Bloomfield fine sands, 1 to 7 percent slopes, eroded
861F	Princeton-Bloomfield fine sands, 15 to 35 percent slopes
861D2	Princeton-Bloomfield fine sands, 7 to 15 percent slopes, eroded
7148A	Proctor silt loam, 0 to 2 percent slopes, rarely flooded
148D2	Proctor silt loam, 10 to 18 percent slopes, eroded
148B	Proctor silt loam, 2 to 5 percent slopes
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded
374A	Proctor silt loam, sandy substratum, 0 to 2 percent slopes
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
8074A	Radford silt loam, 0 to 2 percent slopes, occasionally flooded
8452A	Riley loam, 0 to 2 percent slopes, occasionally flooded
3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
279A	Rozetta silt loam, 0 to 2 percent slopes
279D2	Rozetta silt loam, 10 to 18 percent slopes, eroded
279B	Rozetta silt loam, 2 to 5 percent slopes
279B2	Rozetta silt loam, 2 to 5 percent slopes, eroded
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded
279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded
16A	Rushville silt loam, 0 to 2 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes
3107+	Sawmill silt loam, overwash, 0 to 2 percent slopes, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
8107+	Sawmill silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded
3107S	Sawmill silty clay loam, sandy substratum, 0 to 2 percent slopes, frequently flooded
618F	Senachwine silt loam, 18 to 35 percent slopes
736D2	Senachwine-Russell silt loams, 10 to 18 percent slopes, eroded
138A	Shiloh silty clay loam, 0 to 2 percent slopes
712A	Spaulding silty clay loam, 0 to 2 percent slopes
243A	St. Charles silt loam, 0 to 2 percent slopes
243B	St. Charles silt loam, 2 to 5 percent slopes
243C2	St. Charles silt loam, 5 to 10 percent slopes, eroded
965D2	Tallula-Bold silt loams, 10 to 18 percent slopes, eroded
965C2	Tallula-Bold silt loams, 5 to 10 percent slopes, eroded
36A	Tama silt loam, 0 to 2 percent slopes
36D2	Tama silt loam, 10 to 18 percent slopes, eroded
36B	Tama silt loam, 2 to 5 percent slopes
36C2	Tama silt loam, 5 to 10 percent slopes, eroded
737A	Tama silt loam, very deep to sand, 0 to 2 percent slopes

ALPHABETICAL SOIL MAP LEGEND(continued)

Map symbol	Soil name
737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes
737C2	Tama silt loam, very deep to sand, 5 to 10 percent slopes, eroded
212C2	Thebes silt loam, 5 to 10 percent slopes, eroded
206A	Thorp silt loam, 0 to 2 percent slopes
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
3284S	Tice silty clay loam, sandy substratum, 0 to 2 percent slopes, frequently flooded
533	Urban land
W	Water
622D2	Wyanet silt loam, 10 to 18 percent slopes, eroded
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
3405A	Zook silty clay loam, 0 to 2 percent slopes, frequently flooded

CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS

1. LABORATORY DATA FROM *UNIVERSITY OF ILLINOIS PEDOLOGY LABORATORY*

SAMPLED AS	PEDON NUMBER	LAB NUMBER	PUB SYM	APPROVED SERIES
ALEXIS	67IL107-001	20437-46	374A	**PROCTOR, SANDY SUBSTRATUM –** All horizons not sampled, borderline to fine-loamy. More sand in 2B and 2C than allowed for Proctor series, fits sandy substratum phase of Proctor.
CLARY	66IL107-001-1	20149-55	685B	**MIDDLETOWN –** Lower two horizons not sampled, fits classification for Middletown.

2. LABORATORY DATA FROM *NATIONAL SOIL SURVEY LABORATORY*

SAMPLED AS	PEDON NUMBER	LAB NUMBER	PUB SYM	APPROVED SERIES
BROADWELL	66IL107-003	40A16036-44	684B	**BROADWELL –** Discrepancy in location information. Loam texture in Ap and A not in OSD range. Fits Broadwell classification. Inclusion of Broadwell.
IPAVA	66IL107-005	40A39047-54	43A	**IPAVA –**5Y hue in the BC and C horizons and silt texture in the C horizon not in the OSD range. Inclusion of Ipava.
LAWNDALE	66IL107-001-2	40A15998-6007	683A	**LAWNDALE** – Discrepancy in location information. Classifies as fine-silty over sandy, mixed, superactive, mesic Oxyaquic Argiudolls. Inclusion of Lawndale.
PILLOT	66IL107-007	40A16008-17	159B	**PILLOT** –Greater than 10 percent sand in the A horizons, 7.5YR hue and 3 value in the 2C horizon, and depth to sandy material not in the OSD range. Classifies as fine-silty, mixed, superactive, mesic Typic Argiudolls. Inclusion of Pillot.
TAMA	66IL107-006	40A22131-40	705B	**TAMA** – Average percent clay in particle size control section and clay content in the C horizon are not in the OSD range. Fits Tama classification. Inclusion of Buckhart
SABLE	66IL107-002	40A16018-26	152A	**DRUMMER –**Discrepancy in location information. Clay content in lower A and upper B, clay content in lower B, depth to carbonates, and sand content in 2C not in OSD range. Inclusion of Drummer.
SABLE	66IL107-004	40A16027-33	68A	**SABLE –** 10YR 5/6, and 10YR 5/8 in the lower B horizon and C horizon, depth to carbonates, clay content in the lower A and upper B horizons, and clay content in the C horizon, are out of the OSD range. Inclusion of Sable.

3. LABORATORY DATA FROM *MISSOURI SOIL CHARACTERISTIC LABORATORY., sampled for the proposed World Congress of Soil Science Pre-Conference tour*

SAMPLED AS	**PEDON NUMBER**	**LAB NUMBER**	**PUB SYM**	**APPROVED SERIES**
HICKORY	05IL107-100	0510710001-10007	898F2	**HICKORY –** 40 inches of loess over glacial till, profile classifies as a fine-silty, mixed, superactive, mesic, Mollic Paleudalfs, not sampled deep enough to determine if in Ultic subgroup. Inclusion of the Hickory-Sylvan complex.
ELKHART	05IL107-101	0510710101-10108	280C2	**FAYETTE –** Classifies as a coarse-silty, mixed, superactive, mesic, Typic Hapludolls. Inclusion of Fayette.

Notes to Accompany the Classification and Correlation of Logan County, Illinois

prepared by Bill Teater and Bob Tegeler

Map unit slopes were adjusted to fit the MLRA 108 Legend. Slope classes of map units on the published legend differ from slope classes in this legend in the following ways:

SANDY SOILS

PUBLISHED SLOPE	PUBLISHED PERCENT	UPDATE SLOPE	UPDATE PERCENT
A	0-2	A	0-2
B	1-4	B	1-7
	2-7		
C	3-7		
	2-6		
	2-7		
	4-10		
D	7-12	D	7-15
	7-15		
E	12-30	F	15-35
	12-35		

During compilation the slope conversions generally were as follows:

A goes to B
B goes to B
C goes to B
D goes to D
E goes to F

SILTY AND LOAMY SOILS:

PUBLISHED SLOPE	PUBLISHED PERCENT	UPDATE SLOPE	UPDATE PERCENT
A	0-2	A	0-2
B	2-4	B	2-5
	1-4		
C	4-7	C	5-10
D	6-15	D	10-18
	7-12		
	7-15		
	7-18		
E	12-18	D	10-18
F	15-50	F	18-35
	18-60		
		G	35-60

During compilation the slope conversions generally were as follows:

A goes to A
B goes to B
C goes to B, C
D goes to C, D
E goes to D
F goes to F
G goes to G

In the previous correlation, nearly level soils did not have a slope letter in the map symbol and the slope range was not in the map unit name. In addition, the nearly level alluvial soils did not have flooding frequency or duration in the map unit name.

With this update, all map units, except miscellaneous units, have a slope letter in the map unit symbol and the slope range stated in the map unit name. In addition, alluvial soils have flooding frequency stated in the map unit name and the flooding prefix is part of the map unit symbol. Brief duration is assumed. If duration is other than brief, it is added as part of the map unit name and the letter "L" is added as a suffix to the map unit symbol. The following prefixes and suffixes are used in this survey area:

Prefix	Description
3	Frequently flooded
7	Rarely flooded
8	Occasionally flooded

Suffix	Description
L	Long duration
S	Sandy substratum
+	Overwash

Notes specific to the series, component, or map unit are given following the series/component name. Also shown is the typical pedon number or the source of the pedon if it has been previously correlated and published. Then the map unit symbol and data map unit id are listed.

Alvin: Dropped. See Bloomfield.

Aquents
3408A 501766

Birkbeck: Some of the map units of the Birkbeck-Senachwine Complex are mapped beyond the terminal moraine of the Wisconsin Episode and have carbonates at depths greater than defined in the OSD.
Typical pedon: 80IL-115-035
233B 153,456 80IL-115-035
233C2 155,283 83IL-011-079
733C2 498,087
733C3 498,088

Bloomfield: Added. These soils occur only in complex with the Princeton soils. The Princeton-Bloomfield complex brackets the wide range in family textural classes generally observed in most delineations. It includes those areas previously mapped as Alvin-Lamont complex.
Typical pedon: OSD Lawrence Co.
861B2 485,341
861D2 485,609
861F 468,577

Brenton
Typical pedon: 01IL-113-003
149A 410,848 01IL-113-003

Bold
Typical pedon: 82IL-017-012
965C2 467,578
965D2 434,115 82IL-017-033

Broadwell: These soils are mapped as consociation (684) and in complex with Onarga soils (827) and with Sparta soils (828). The complexes are in areas that were previously mapped as Dickenson-Onarga complex. The Broadwell soils in map units 684C2, 827B2, and 828D2 are taxadjuncts to the series. They have a dark colored surface layer that is thinner than defined for the series. They classify as Fine-silty, mixed, superactive, mesic Mollic Hapludalfs.
Typical pedon: 85IL-021-036
684A 467,680
684B 155,586 85IL-021-036
684C2 155,535 83IL-179-072
827A 135,185
827B 468,579
827B2 468,579
828D2 484,572

Brooklyn: Dropped. See Knight

Buckhart: Added. These soils are in areas of very low relief that were previously mapped as Tama. The pH of Bt in map unit 705A is slightly lower than is definitive for the series
Typical pedon: 99IL-021-003
705A 154,990 00IL-161-001
705B 153,985 99IL-021-003
749B 501,765

Camden: Added. These soils were previously mapped as Thebes. The loamy and sandy materials in these soils are more like outwash than eolian sands.
Typical pedon: 77IL-019-008
134C2 131,428 85IL-011-5
134C3 498,083

Catlin: These soils in map units 171C2 and 171D2 are taxadjuncts to the series. The dark colored surface soil is thinner than defined for the series. They classify as Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs.
Some of the Catlin delineations are beyond the terminal moraine of the Wisconsin Episode and have carbonates at depths greater than defined in the OSD. Also, the Bt2 horizon chroma of 6 in the 171B is out of the OSD range
Typical pedon: 72IL-141-15
171B 407,839 86IL-113-053
171C2 142,720
171D2 498,080

Clare: Added. These soils were previously mapped as Proctor soils on less than 2 percent slopes.
Typical pedon: 90IL-113-080
663A 408,764 90IL-113-080

Clarksdale:
Typical pedon: 95IL-001-024
257A 141,777 95IL-001-024

Clinton: Dropped. See Fayette and Rozetta.

Denny
Typical pedon: 87IL-109-064
45A 139,402 87IL-109-064

Dickinson: Dropped. See Broadwell, Landes, and Sparta

Drummer
Typical pedon: 77IL-019-034
152A 151,641 77IL-019-034

Edgington: Added. Mapped in areas that were previously delineated as Denny.
Typical pedon: 96IL-015-011
272A 151,303 96IL-015-011

Elburn: Includes those areas that were previously mapped as Muscatine.
Typical pedon: 85IL-021-002
198A 399,244 85IL-021-002
726A 497,548 86IL-039-002
7198A 497,304

Elkhart: These soils in map unit 567C2 are a taxadjunct to the series because the dark colored surface soil is thinner than defined for the series. They classify as Fine-silty, mixed, superactive, mesic Mollic Hapludalfs.

Typical pedon: 84IL-131-069
567C2 433,848 85IL-011-045

Fayette: Includes areas that were previously mapped as Clinton soils on slopes greater than 10 percent. Request to expand OSD range to include strongly acid in the A and Ap horizons, and slightly alkaline in the BC and C horizons sent to MO 10.
Typical pedon: 87IL-187-018
280C2 139,433 93IL-057-013
280D2 140,168 89IL-057-027

Harpster
Typical pedon: 64IL-053-001
67A 142,575 64IL-053-001

Hartsburg
Typical pedon: 96IL-107-010
244A 153,413 96IL-107-010

Hennepin: Dropped. See Senachwine

Hickory
Typical pedon: 95IL-017-002
898F2 484,473

Huntsville
Typical pedon: 85IL-195-339
3077A 140,172 85IL-195-339

Ipava
Typical pedon: 78IL-095-016
43A 139,401 78IL-095-016

Keomah: BC horizon of 38 inches is thicker than the 18 inches given in the OSD.

Typical pedon: 95IL-001-023
17A 141750 95IL-001-023

Knight: Includes those areas previously mapped as Brooklyn soils. Parent materials and morphology are similar as they occur on Logan County.
Typical pedon: 05IL-107-012
191A 498,061 05IL-107-012
7191A 498,063 06IL-107-006

Lamont: Dropped. See Bloomfield and Princeton.

Landes: Added. Previously mapped as Dickinson-Onarga soils on flood plains.
Typical pedon: 82IL-017-017
3304A 155,163 82IL-017-017
7304A 509585

Landfills
830 154,002

Lawndale
Typical pedon: 66IL-107-001
683A 467,728 66IL-107-001

Lawson: These soils in map unit 8451A have stronger soil development in the B horizon than is typical for the series.

Typical pedon: 97IL-001-014
3451A 141,801 97IL-001-014
8451A 423,929 84IL-011-012

Lenzburg: Added. Previously delineated as gravel pits or quarries.
Typical pedon: OSD
871B 139,470 93IL-057-052
871D 493,913

Miami: See also Senachwine
Typical pedon: 90IL-113-033
27D2 402,821 90IL-113-033

Middletown
Typical pedon: 00IL-167-003
685B 154,979 00IL-167-003
685C2 155,553
685D2 484,568

Miscellaneous water
M-W 155,361

Muscatine: Dropped. See Elburn

Onarga: These soils are mapped only in complex with Broadwell soils. The areas were previously delineated as Dickinson-Onarga complex. These soils in map unit 827B2 are a taxadjunct to the series because the dark colored surface soil is thinner than defined for the series. They classify as Coarse-loamy, mixed, superactive, mesic Mollic Hapludalfs.
Typical pedon: 85IL-125-046
827A 498,089
827B 468,579
827B2 498,090

Orthents, loamy
802B 155,319
802E 156,031

Osco: Added. These map units were previously delineated as Tama soils. These soils in map unit 86C2 are a taxadjunct to the series because the dark colored surface soil is thinner than defined for the series. They classify as Fine-silty, mixed, superactive, mesic Mollic Hapludalfs.
Typical pedon: 56IL-015-002
86B 141,764 56IL-015-002
86C2 142,706 83IL-011-033

Pillot: These soils in map unit 159C2 are a taxadjunct to the series because the dark colored surface soil is thinner than defined for the series. They classify as Fine-silty over sandy or sandy-skeletal, mixed, superactive, mesic Mollic Hapludalfs.
Typical pedon: 66IL-107-007
159B 498,072 66IL-107-007
159C2 498,075

Parr: Dropped. See Wyanet

Pits
864 155,280
865 153,492

Plano: These soils in map units 199C2 and 748C2 are taxadjuncts to the series because the dark colored surface soil is thinner than defined for the series. They classify as Fine-silty, mixed, superactive, mesic Mollic Hapludalfs.
The pH of the surface layer of the 748B and 748C2 units is more acid (5.6) than defined in the OSD (6.5)
Typical pedon: 87IL-175-002
199A 399,244 87IL-175-002
199B 156,397
199C2 151,288 86IL-011-010
748A 498,091
748B 497,549 86IL-039-002
748C2 498,092
7199A 497,302

Princeton: Added. These soils occur only in complex with the Bloomfield soils. The Princeton-Bloomfield complex brackets the wide range in family textural classes generally observed in most delineations. It includes those areas previously mapped as Alvin-Lamont complex.
Typical pedon: S701IN84-2 OSD
861B2 485,341
861D2 485,609 04IL-129-009
861F 468,577

Proctor: These soils in map units 148C2 and 148D2 are taxadjuncts to the series because the dark colored surface soil is thinner than defined for the series. They classify as Fine-silty, mixed, superactive, mesic Mollic Hapludalfs.
The sand content of the 2C horizon in map unit 7148A is on the high end of the OSD range.
The pH of the lower Bt in map unit 374A is more acid than is defined for the OSD.

Typical pedon: 85IL-143-006
148B 155,581 85IL-143-006
148C2 511079
148D2 498,070
374A 498,066 87IL-125-031
7148A 156,340 86IL-021-004

Radford
Typical pedon: 84IL-017-001
3074 153,414 84IL-017-001
8074 151,364 83IL-011-049

Riley: Added. Previously delineated as Brenton and as Dickinson-Onarga complex on flood plains.
Typical pedon: 96IL-001-001
8452A 142,820 96IL-001-001

Ross: These soils commonly do not have carbonates within a depth of 45 inches as is typical for the series.
Typical pedon: 85IL-179-017
3073A 154,980 85IL-179-017

Rozetta: Previously correlated and delineated as Clinton soils on slopes generally less than 10 percent. These soils in map unit 279B2 are a taxadjunct to the series because redoximorphic features significantly higher in the profile than is definitive for the series. They classify as Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs.
These soils in map unit 279D2 have redoximorphic features only slightly higher in the profile than is definitive for the series. They are not considered a taxadjunct.
Also, many pedons in this survey area are more acid in the C horizon than currently defined for the series. Propose expanding the OSD range to include moderately acid in the C horizon.
Typical pedon: 96IL-177-012
279A 151,308 96IL-177-012
279B 141,790 95IL-057-001
279B2 155,308 87IL-113-052
279C2 139,430 93IL-057-065
279C3 155,291
279D2 426,516 89IL-109-021

Rushville
Typical pedon: 95IL-001-038
16A 141,749 95IL-001-038

Russell: Some delineations of Russell soils are beyond the terminal moraine of the Wisconsin Episode and have carbonates at depths greater than defined in the OSD.

Typical pedon: 88IL-045-041
736D2 498,085

Sable
Typical pedon: 57IL-187-001
68A 155,134 57IL-187-001

Sawmill
Typical pedon: 99IL-167-008
3107A 153,474 99IL-167-008
3107S 468,657 04IL-129-013
3107+ 152,442 86IL-187-092
8107A 155,363 85IL-039-023
8107+ 509770 87IL-125-005

Senachwine: Added. Previously mapped as the Miami member in the Miami and Hennepin undifferentiated unit and as the Miami member of the Birkbeck-Miami complex. Some of the map units of the Birkbeck-Senachwine Complex are mapped beyond the terminal moraine of the Wisconsin Episode and have carbonates at depths greater than defined in the OSD.
These soils in map units 733C2, 733C3 and 736D2 map units have higher pH in the B horizons and have soil development deeper than is definitive for series.
Typical pedon: 82IL-011-187
618F 153,461 82IL-011-080
736D2 498,085 05IL-107-008
733C2 498,087 05IL-107-009
733C3 498,088

Shiloh
Typical pedon: 85IL-021-046
138A 154,977 85IL-021-046

Sparta: Added. These soils are mapped only in complex with Broadwell soils. The areas were previously delineated as Dickinson-Onarga complex. These soils in map unit 828D2 are a taxadjunct to the series because the dark colored surface soil is thinner than defined for the series. They classify as mixed, mesic Typic Udipsamments.
Typical pedon: 92IL-001-069
828D2 484,572

Spaulding: Added. These areas were previously delineated as Harpster soils.
Typical pedon: IL99-167-004
712A 154,105 IL99-167-004

St. Charles
Typical pedon: 83IL-011-037
243A 485,030
243B 140,161 83IL-011-037
243C2 151,300 85IL-011-032

Sylvan
Typical pedon: 95IL-017-033
898F2 484,473

Tallula
Typical pedon: 81IL-017-023
965C2 467,578
965D2 434,115 81IL-017-023

Tama: These soils in map units 36C2, 36D2 and 737C2 are taxadjuncts to the series because the dark colored surface soil is thinner than defined for the series. They classify as Fine-silty, mixed, superactive, mesic Mollic Hapludalfs.
Also, these soils in map unit 737A are less acid in the Bt horizon, than is defined for the series.
Typical pedon: IL00-167-001
36A 498,054
36B 156,342 IL00-167-001
36C2 156,339 85IL-125-023
36D2 498,059
737A 498,057 05IL-107-016
737B 498,058
737C2 517220

Thebes
Typical pedon: 84IL-131-044
212C2 155,534

Thorp: Added. These soils were previously delineated as areas of Denny or Knight soils.
Typical pedon: 96IL-099-008
206A 142,728 96IL-099-008

Tice: These soils in map units 3284A and 8284A in the northwestern corner of the county include areas that have more sand and/or less clay in the particle size control section than is defined for the series. These soils need to be investigated over a multi-county area at a future date. Also, these soils in map unit 8284A do not have an irregular decrease of organic carbon
Typical pedon: 96IL-001-060
3284A 139,441 94IL-057-176
3284S 468,659 04IL-129-020
8284A 141,861 96IL-001-060

Urban land
533 151,935

Water
w 155,171

Wyanet: Added. These map units were previously mapped as Parr soils. These soils in map units 622C2 and 622D2 are taxadjuncts to the series because the dark colored surface soil is thinner than defined for the series. They classify as Fine-loamy, mixed, active, mesic Mollic Hapludalfs.
Some delineations of the Wyanet soils are beyond the terminal moraine of the Wisconsin Episode and have carbonates at depths greater than defined in the OSD.
Typical pedon: 82IL-011-067
622C2 153,462 83IL-011-067
622D2 498,084

Zook: Added. These soils were previously delineated as Shiloh soils on flood plains.
Typical pedon: 87IL-187-006
3405A 152,445 87IL-187-006

Classification Of The Soils Of
Logan County, Illinois

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Aquents	Mixed, Aquents
Birkbeck	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Bloomfield	Sandy, mixed, mesic Lamellic Hapludalfs
Bold	Coarse-silty, mixed, superactive, calcareous, mesic Typic Udorthents
Brenton	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Broadwell	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Broadwell	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Buckhart	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Camden	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Catlin	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
*Catlin	Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs
Clare	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Clarksdale	Fine, smectitic, mesic Udollic Endoaqualfs
Denny	Fine, smectitic, mesic Mollic Albaqualfs
Drummer	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Edgington	Fine-silty, mixed, superactive, mesic Argiaquic Argialbolls
Elburn	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
*Elkhart	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Fayette	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Harpster	Fine-silty, mixed, superactive, mesic Typic Calciaquolls
Hartsburg	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Hickory	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Huntsville	Fine-silty, mixed, superactive, mesic Cumulic Hapludolls
Ipava	Fine, smectitic, mesic Aquic Argiudolls
Keomah	Fine, smectitic, mesic Aeric Endoaqualfs
Knight	Fine-silty, mixed, superactive, mesic Argiaquic Argialbolls
Landes	Coarse-loamy, mixed, superactive, mesic Fluventic Hapludolls
Lawndale	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Lawson	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Lenzburg	Fine-loamy, mixed, active, calcareous, mesic Haplic Udarents
Miami	Fine-loamy, mixed, active, mesic Oxyaquic Hapludalfs
Middletown	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Onarga	Coarse-loamy, mixed, superactive, mesic Typic Argiudolls
*Onarga	Coarse-loamy, mixed, superactive, mesic Mollic Hapludalfs
Orthents	Fine-loamy, mixed, active, nonacid, mesic Typic Udorthents
Orthents	Orthents
Osco	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Osco	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Pillot	Fine-silty over sandy or sandy-skeletal, mixed, superactive, mesic Typic Argiudolls
*Pillot	Fine-silty over sandy or sandy-skeletal, mixed, superactive, mesic Mollic Hapludalfs
Plano	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Plano	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Princeton	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Proctor	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Proctor	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Radford	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Riley	Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Fluvaquentic Hapludolls
Ross	Fine-loamy, mixed, superactive, mesic Cumulic Hapludolls
Rozetta	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
*Rozetta	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Rushville	Fine, smectitic, mesic Typic Albaqualfs
Russell	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Sable	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Sawmill	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls

Classification Of The Soils (continued)

Soil name	Family or higher taxonomic class
Senachwine-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Shiloh---------	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
*Sparta---------	Mixed, mesic Typic Udipsamments
Spaulding------	Fine-silty, mixed, superactive, mesic Typic Calciaquolls
St. Charles----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Sylvan---------	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Tallula--------	Coarse-silty, mixed, superactive, mesic Typic Hapludolls
Tama-----------	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Tama----------	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Thebes---------	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Thorp----------	Fine-silty, mixed, superactive, mesic Argiaquic Argialbolls
Tice-----------	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
*Wyanet---------	Fine-loamy, mixed, active, mesic Mollic Hapludalfs
Zook-----------	Fine, smectitic, mesic Cumulic Vertic Endoaquolls

Certification Statement

The MLRA Region 11 Team Leader certifies that:

a. The fieldwork activities were completed in 2nd quarter 2005.

b. Logan County joins seven modern soil surveys:

Menard County- Update survey certified 2005
Mason County- Modern soil survey (1995)
Sangamon County- Update survey certified 2002
Dewitt County- Update survey certified 2006
Macon County- Ongoing update soil survey
McLean County- Update survey certified 2004
Tazewell County- Modern soil survey (1996)

An exact join has been completed with Menard, Macon, and Dewitt County soil surveys. An exact join has been completed with McLean and Sangamon Counties pending the SSURGO recertification of those counties. An acceptable join has been completed with Mason and Tazewell Counties. An exact join will be made when Mason and Tazewell Counties are updated.

c. Interpretations have been coordinated and agree with adjoining survey areas.

d. The locations of all typical pedons have been checked for accuracy, and that they occur in delineations using those names. Not all typical pedons are located in Logan County, those in Logan County will be checked after digital map edits are complete.

e. All typical pedons are classified according to Soil Taxonomy, Ninth Edition, 2003.

f. The digital soil maps, once complete, will be reviewed for accuracy and consistency prior to certification.

Approval Signature and Date:

_____	_____	_____	_____
Travis Neely	Date	William J. Gradle	Date
Team Leader, MLRA Region 11		State Conservationist	
Indianapolis, Indiana		Champaign, Illinois	