

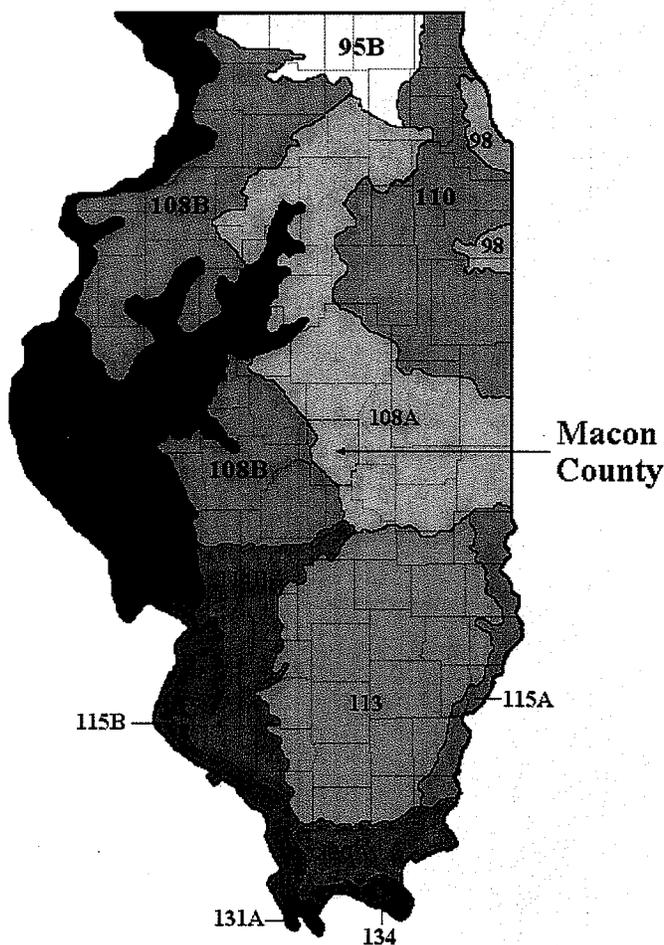
United States
Department of
Agriculture

Natural Resources
Conservation Service

East Central Glaciated
Regional MLRA
Soil Survey Office
Indianapolis, IN

Classification and Correlation of Soils in Macon County, Illinois

A Subset of MLRA 108A and 108B



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
120A	Kentucky and Indiana Sandstone and Shale Hills and Valleys, Southern Part
131A	Southern Mississippi Valley Alluvium
134	Southern Mississippi Valley Loess

April 2007

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**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

**CLASSIFICATION AND CORRELATION
OF THE SOILS OF
MACON COUNTY, ILLINOIS**

A SUBSET OF MLRA 108A and MLRA 108B

April 2007

This correlation was prepared by Ron Collman, MLRA Soil Scientist, Charleston, IL, John C. Doll, Soil Scientist, Champaign, IL, and Asghar A. Chowdhery, Soil Data Quality Specialist (SDQS) MLRA Region 11 team, Indianapolis, IN. It was prepared as part of the update of the Soil Survey of Macon County, a subset of MLRA's 108A and 108B. It is based on transect data, pedon descriptions, laboratory data, field soil maps, join statements, and the descriptive legend. Sources used in the literature review include "Classification and Correlation of the Soils of Macon County, Illinois" - March 1985, and the published "Soil Survey of Macon County, Illinois" - Soil Report No. 127, April 1990.

HEADNOTE FOR DETAILED SOIL SURVEY LEGEND

This update of Macon County, Illinois is an update subset of the Soil Survey of Major Land Resource Areas (MLRA's) 108A and 108B. Map unit names, map unit 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. 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 non-eroded. Map unit symbols without a following capital letter are for miscellaneous units.

Soil Correlation of Macon County, Illinois

Field symbols	Field map unit name	Publication symbol	Approved map unit name
36B 43A 43A 154A	Tama silt loam, 2 to 5 percent slopes Ipava silt loam, 0 to 3 percent slopes Ipava silt loam, 0 to 2 percent slopes Flanagan silt loam, 0 to 3 percent slopes	43A	Ipava silt loam, 0 to 2 percent slopes
45 45A	Denny silt loam Denny silt loam, 0 to 2 percent slopes	45A	Denny silt loam, 0 to 2 percent slopes
56B 56B	Dana silt loam, 1 to 5 percent slopes Dana silt loam, 2 to 5 percent slopes	56B	Dana silt loam, 2 to 5 percent slopes
56B 56B2 56C2	Dana silt loam, 1 to 5 percent slopes Dana silt loam, 2 to 5 percent slopes, eroded Dana silt loam, 4 to 6 percent slopes, eroded	56B2	Dana silt loam, 2 to 5 percent slopes, eroded
56C2 56C2	Dana silt loam, 5 to 10 percent slopes, eroded Dana silt loam, 4 to 6 percent slopes, eroded	56C2	Dana silt loam, 5 to 10 percent slopes, eroded
67 67A	Harpster silty clay loam Harpster silty clay loam, 0 to 2 percent slopes	67A	Harpster silty clay loam, 0 to 2 percent slopes
68 68A	Sable silty clay loam Sable silty clay loam, 0 to 2 percent slopes	68A	Sable silty clay loam, 0 to 2 percent slopes
36B 86B	Tama silt loam, 2 to 5 percent slopes Osco silt loam, 2 to 5 percent slopes	86B	Osco silt loam, 2 to 5 percent slopes
88C 88C	Sparta loamy sand, 5 to 10 percent slopes Sparta loamy sand, 4 to 12 percent slopes	88C	Sparta loamy sand, 5 to 10 percent slopes
119C2 119C2	Elco silt loam, 4 to 12 percent slopes, eroded Elco silt loam, 5 to 10 percent slopes, eroded	119C2	Elco silt loam, 5 to 10 percent slopes, eroded
132 132A	Starks silt loam Starks silt loam, 0 to 2 percent slopes	132A	Starks silt loam, 0 to 2 percent slopes
134B 134B	Camden silt loam, 2 to 5 percent slopes Camden silt loam, 1 to 5 percent slopes	134B	Camden silt loam, 2 to 5 percent slopes
136 136A 206	Brooklyn silt loam Brooklyn silt loam, 0 to 2 percent slopes Thorp silt loam	136A	Brooklyn silt loam, 0 to 2 percent slopes
138 138A	Shiloh silty clay loam Shiloh silty clay loam, 0 to 2 percent slopes	138A	Shiloh silty clay loam, 0 to 2 percent slopes
148B 148B 199B	Proctor silt loam, 2 to 5 percent slopes Proctor silt loam, 1 to 5 percent slopes Plano silt loam, 2 to 5 percent slopes	148B	Proctor silt loam, 2 to 5 percent slopes

Soil Correlation (Continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded	148C2	Proctor silt loam, 5 to 10 percent slopes, eroded
67	Harpster silty clay loam	152A	Drummer silty clay loam, 0 to 2 percent slopes
136	Brooklyn silt loam		
152	Drummer silty clay loam		
152A	Drummer silty clay loam, 0 to 2 percent slopes		
2152	Drummer-Urban land complex		
153	Pella silty clay loam	153A	Pella silty clay loam, 0 to 2 percent slopes
153A	Pella silty clay loam, 0 to 2 percent slopes		
154A	Flanagan silt loam, 0 to 3 percent slopes	154A	Flanagan silt loam, 0 to 2 percent slopes
154A	Flanagan silt loam, 0 to 2 percent slopes		
171B	Catlin silt loam, 1 to 5 percent slopes		
2154A	Flanagan-Urban land complex, 0 to 3 percent slopes		
36B	Tama silt loam, 2 to 5 percent slopes	171B	Catlin silt loam, 2 to 5 percent slopes
171B	Catlin silt loam, 2 to 5 percent slopes		
171B	Catlin silt loam, 1 to 5 percent slopes		
2171B	Catlin-Urban land complex, 1 to 7 percent slopes		
43A	Ipava silt loam, 0 to 3 percent slopes	198A	Elburn silt loam, 0 to 2 percent slopes
154A	Flanagan silt loam, 0 to 3 percent slopes		
198A	Elburn silt loam, 0 to 2 percent slopes		
198A	Elburn silt loam, 0 to 3 percent slopes		
154A	Flanagan silt loam, 0 to 3 percent slopes		
199A	Plano silt loam, 0 to 2 percent slopes	199A	Plano silt loam, 0 to 2 percent slopes
36B	Tama silt loam, 2 to 5 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		
684B	Broadwell silt loam, 1 to 7 percent slopes		
199C2	Plano silt loam, 5 to 10 percent slopes, eroded	199C2	Plano silt loam, 5 to 10 percent slopes, eroded
206	Thorp silt loam	206A	Thorp silt loam, 0 to 2 percent slopes
206A	Thorp silt loam, 0 to 2 percent slopes		
233B	Birkbeck silt loam, 1 to 5 percent slopes	233B	Birkbeck silt loam, 2 to 5 percent slopes
233B	Birkbeck silt loam, 2 to 5 percent slopes		
2233B	Birkbeck-Urban land complex, 1 to 5 percent slopes		
234	Sunbury silt loam	234A	Sunbury silt loam, 0 to 2 percent slopes
234A	Sunbury silt loam, 0 to 2 percent slopes		

Soil Correlation (Continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
236A 236A 2236A	Sabina silt loam, 0 to 3 percent slopes Sabina silt loam, 0 to 2 percent slopes Sabina-Urban land complex, 0 to 3 percent slopes	236A	Sabina silt loam, 0 to 2 percent slopes
244 244A	Hartsburg silty clay loam Hartsburg silty clay loam, 0 to 2 percent slopes	244A	Hartsburg silty clay loam, 0 to 2 percent slopes
257 257A	Clarksdale silt loam Clarksdale silt loam, 0 to 2 percent slopes	257A	Clarksdale silt loam, 0 to 2 percent slopes
279B 279B	Rozetta silt loam, 2 to 5 percent slopes Rozetta silt loam, 1 to 5 percent slopes	279B	Rozetta silt loam, 2 to 5 percent slopes
134B 233B 291B 291B	Camden silt loam, 1 to 5 percent slopes Birkbeck silt loam, 1 to 5 percent slopes Xenia silt loam, 2 to 5 percent slopes Xenia silt loam, 1 to 5 percent slopes	291B	Xenia silt loam, 2 to 5 percent slopes
322C2 322C2 2322C	Russell silt loam, 5 to 10 percent slopes, eroded Russell silt loam, 4 to 10 percent slopes, eroded Russell-Urban land complex, 5 to 10 percent slopes	322C2	Russell silt loam, 5 to 10 percent slopes, eroded
330 330A	Peotone silty clay loam Peotone silty clay loam, 0 to 2 percent slopes	330A	Peotone silty clay loam, 0 to 2 percent slopes
348B 348B	Wingate silt loam, 2 to 5 percent slopes Wingate silt loam, 1 to 5 percent slopes	348B	Wingate silt loam, 2 to 5 percent slopes
481A 481A	Raub silt loam, 0 to 2 percent slopes Raub silt loam, 0 to 3 percent slopes	481A	Raub silt loam, 0 to 2 percent slopes
533	Urban land	533	Urban land
27C2 618C2 2027C	Miami silty clay loam, 5 to 10 percent slopes, eroded Senachwine silt loam, 5 to 10 percent slopes, eroded Miami-Urban land complex, 5 to 10 percent slopes	618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded
27D2 618D2 2027D	Miami silt loam, 10 to 15 percent slopes, eroded Senachwine silt loam, 10 to 18 percent slopes, eroded Miami-Urban land complex, 10 to 18 percent slopes	618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded
27E3 618D3	Miami clay loam, 15 to 20 percent slopes, severely eroded Senachwine clay loam, 10 to 18 percent slopes, severely eroded	618D3	Senachwine clay loam, 10 to 18 percent slopes, severely eroded

Soil Correlation (Continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
27E3 27F 618F 2027F	Miami clay loam, 15 to 20 percent slopes, severely eroded Miami loam, 18 to 30 percent slopes Senachwine loam, 18 to 35 percent slopes Miami-Urban land complex, 18 to 35 percent slopes	618F	Senachwine loam, 18 to 35 percent slopes
27G 618G	Miami loam, 30 to 60 percent slopes Senachwine loam, 35 to 60 percent slopes	618G	Senachwine loam, 35 to 60 percent slopes
56B	Dana silt loam, 1 to 5 percent slopes	622B2	Wyanet silt loam, 2 to 5 percent slopes, eroded
221B2 622B2	Parr silt loam, 2 to 5 percent slopes, eroded Wyanet silt loam, 2 to 5 percent slopes, eroded		
221C2	Parr loam, 5 to 10 percent slopes, eroded	622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded		
386B 675B	Downs silt loam, 1 to 5 percent slopes Greenbush silt loam, 2 to 5 percent slopes	675B	Greenbush silt loam, 2 to 5 percent slopes
199A 199B 199C2	Plano silt loam, 0 to 2 percent slopes Plano silt loam, 2 to 5 percent slopes Plano silt loam, 5 to 10 percent slopes, eroded	679B	Blackberry silt loam, 2 to 5 percent slopes
679B 684B	Blackberry silt loam, 2 to 5 percent slopes Broadwell silt loam, 1 to 7 percent slopes		
684B 684B	Broadwell silt loam, 2 to 5 percent slopes Broadwell silt loam, 1 to 7 percent slopes	684B	Broadwell silt loam, 2 to 5 percent slopes
440C2	Jasper silt loam, 4 to 12 percent slopes, eroded	687C2	Penfield loam, 5 to 10 percent slopes, eroded
687C2	Penfield loam, 5 to 10 percent slopes, eroded		
36B 386B 705B	Tama silt loam, 2 to 5 percent slopes Downs silt loam, 1 to 5 percent slopes 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		
152	Drummer silty clay loam	722A	Drummer-Milford silty clay loams, 0 to 2 percent slopes
722A	Drummer-Milford silty clay loams, 0 to 2 percent slopes		
2152	Drummer-Urban land complex		

Soil Correlation (Continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
36B	Tama silt loam, 2 to 5 percent slopes	737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes
199B	Plano silt loam, 2 to 5 percent slopes		
684B	Broadwell silt loam, 1 to 7 percent slopes		
737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes		
36B	Tama silt loam, 2 to 5 percent slopes	749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes
749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes		
802B	Orthents, loamy, undulating	802B	Orthents loamy, undulating
802B	Orthents loamy, undulating		
802D	Orthents, loamy, rolling	802D	Orthents loamy, rolling
802D	Orthents loamy, rolling		
865	Pits, gravel	865	Pits, gravel
1083	Wabash silty clay loam, wet	1083A	Wabash silty clay, undrained, 0 to 2 percent slopes, frequently flooded
1083A	Wabash silty clay, undrained, 0 to 2 percent slopes, frequently flooded		
107	Sawmill silty clay loam	1107A	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
1107A	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded		
306	Allison silt loam	3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded		
306	Allison silt loam	3077A	Huntsville silt loam, 0 to 2 percent slopes, frequently flooded
3077A	Huntsville silt loam, 0 to 2 percent slopes, frequently flooded		
138	Shiloh silty clay loam	3083A	Wabash silty clay, 0 to 2 percent slopes, frequently flooded
1083	Wabash silty clay loam, wet		
3083A	Wabash silty clay, 0 to 2 percent slopes, frequently flooded		
107	Sawmill silty clay loam	3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
451	Lawson silty clay loam		
3107A	Sawmill silty clay loam, 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		

Soil Correlation (Continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
333	Wakeland silt loam	3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded		
352	Palms silty clay loam, overwash	3352A	Palms silty clay loam, overwash, 0 to 2 percent slopes, frequently flooded
3352A	Palms silty clay loam, overwash, 0 to 2 percent slopes, frequently flooded		
451	Lawson silty clay loam	3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded		
132	Starks silt loam	7134B	Camden silt loam, 2 to 5 percent slopes, rarely flooded
134B	Camden silt loam, 1 to 5 percent slopes		
7134B	Camden silt loam, 2 to 5 percent slopes, rarely flooded		
45	Denny silt loam	7136A	Brooklyn silt loam, 0 to 2 percent slopes, rarely flooded
136	Brooklyn silt loam		
206	Thorp silt loam		
257	Clarksdale silt loam		
7136A	Brooklyn silt loam, 0 to 2 percent slopes, rarely flooded		
43A	Ipava silt loam, 0 to 3 percent slopes	7198A	Elburn silt loam, 0 to 2 percent slopes, rarely flooded
198A	Elburn silt loam, 0 to 3 percent slopes		
7198A	Elburn silt loam, 0 to 2 percent slopes, rarely flooded		
88C	Sparta loamy sand, 4 to 12 percent slopes	7199B	Plano silt loam, 2 to 5 percent slopes, rarely flooded
148B	Proctor silt loam, 1 to 5 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		
684B	Broadwell silt loam, 1 to 7 percent slopes		
7199B	Plano silt loam, 2 to 5 percent slopes, rarely flooded		
802B	Orthents, loamy, undulating	7802B	Orthents loamy, undulating, rarely flooded
802D	Orthents, loamy, rolling		
7802B	Orthents loamy, undulating, rarely flooded		
865	Pits, gravel	7865	Pits, gravel, rarely flooded
7865	Pits, gravel, rarely flooded		

Soil Correlation (Continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
67	Harpster silty clay loam	8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded
68	Sable silty clay loam		
152	Drummer silty clay loam		
244	Hartsburg silty clay loam		
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded		
MW	Miscellaneous Water	MW	Miscellaneous Water
W	Water		
W	Water	W	Water

Series established by this correlation: None

Series or components added to the previous correlated legend (March 1985): Beaucoup, Blackberry, Buckhart, Greenbush, Huntsville, Milford, Osco, Penfield, Ross, Senachwine, Spaulding, Wyanet

Series dropped from the previously correlated legend (March 1985): Allison, Downs, Jasper, Miami, Parr

Series Made Inactive: None

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
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 Macon County Soil and Water Conservation District. Financial assistance was made available by Macon County and the Illinois Department of Agriculture."

The last soil survey of Macon County was completed in 1984 and was published by the United States Department of Agriculture, Natural Resources Conservation Service in 1990. It is Illinois Agricultural Experiment Station Soil Report No. 127, "Soil Survey of Macon County, Illinois". Reference to the prior soil survey will be included in the literature citation of the manuscript. This update replaces the 1990 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: Macon County, which was published in 1990, joins seven modern soil surveys. These are Christian, DeWitt, Logan, Moultrie, Piatt, Sangamon, and Shelby Counties in Illinois. Christian County to the southwest was updated and digitally published in 2004 and joins exactly. DeWitt County to the north was updated in 2006 and a digital publication is scheduled for 2007 and joins exactly. Logan County to the west was updated in 2006 and a digital publication is scheduled for 2007 and joins exactly. Moultrie County to the southeast was updated and digitally published in 2005 and joins exactly. Sangamon County to the west was updated and digitally published in 2004 and joins exactly. Piatt County to the northeast was published in 1991 and an update is currently underway. An acceptable join exists and an exact join will exist when Piatt County legend is re-correlated. Shelby County to the south was published in 1996. An acceptable join exists. An exact join will be completed when the survey is updated to the MLRA legend.

Disposition of field sheets: The publication soil map materials used for Soil Report No. 127 were compiled using "Ortho-Mapper" software to match ortho-photo quarter quads at a scale of 1:12,000. The quarter quads were vectorized and labeled in ArcInfo, and delivered to the Kansas Digitizing Center. The final SSURGO certified product will be available at the Soil Data Mart, the NRCS state office, and will be provided to Macon County as part of the cost share cooperative agreement.

Instructions for map compilation and map finishing: The digital maps and supporting documentation will be delivered to the Kansas Digitizing Center. The Charleston MLRA team and GIS staff at the state office will complete a final check before SSURGO certification.

Conventional and special symbols legend: Only those symbols indicated on the attached NRCS-SOILS-37A will be shown on the legend and placed on the maps.

SOIL SURVEY FEATURES



AD HOC FEATURES

CSP	29	⊗
DRA	42	⊕

ROAD EMBLEMS

Interstate	
Federal	
State	

STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES

Non-bedrock escarpment	
Levee	
Short steep slope	
Closed depression	
Gravel pit	
Gravelly spot	
Sandy spot	
Severely eroded spot	
Wet spot	

CULTURAL FEATURES (Optional)

County or parish	
Reservation (national or state forest or park)	
Field sheet matchline and neatline	
Public Land Survey System Section Corner Tics.	

LOCATED OBJECTS (not used)

HYDROGRAPHIC FEATURES (Not used)

TRANSPORTATION (not used)

DEFINITIONS AND GUIDELINES

FOR USE OF CONVENTIONAL AND SPECIAL SYMBOLS FOR MACON COUNTY, ILLINOIS

LABEL	NAME	DESCRIPTION OF FEATURE
DEP	Depression, closed	A shallow, saucer-shaped area that is slightly lower on the landscape than the surrounding area and is without a natural outlet for surface drainage. Typically 1/2 to 3 acres.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 1/2 to 2 acres.
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
GPI	Gravel pit	An open excavation from which soil and underlying material have been removed and used, without crushing, as a source of sand or gravel. Typically 1/2 to 2 1/2 acres.
GRA	Gravelly spot	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 1/2 to 2 acres.
LVS	Levee	An embankment that confines or controls water, especially one built along the banks of a river to prevent overflow of lowlands.
SAN	Sandy spot	A spot where the surface layer is 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 1/2 to 3 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
WET	Wet spot	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 1/4 to 3 acres.
DESCRIPTION FOR AD HOC FEATURES		
CSP	Calcareous Spot	A small area that has a concentration of carbonates at the surface. Typically 1/2 to 2 1/2 acres.
DRA	Droughty Spot	An area that has significantly lower available water holding capacity than the surrounding soil. Typically 1/2 to 1 1/2 acres.

Soil Map Unit Symbol Conversion Legend - Macon County, Illinois

Field symbols	Publication symbol
MW	MW
W	MW
W	W
27C2	618C2
27D2	618D2
27E3	618D3
27E3	618F
27F	618F
27G	618G
36B	43A
36B	86B
36B	171B
36B	199B
36B	705B
36B	737B
36B	749B
43A	43A
43A	198A
43A	7198A
45	45A
45	7136A
45A	45A
56B	56B
56B	56B2
56B	622B2
56B2	56B2
56C2	56B2
56C2	56C2
67	67A
67	152A
67	712A
67	8070A
67A	67A
68	68A
68	8070A
68A	68A
86B	86B
88C	88C
88C	7199B
107	1107A
107	3107A
119C2	119C2
119C2	119C2
132	132A
132	7134B
132A	132A

Field symbols	Publication symbol
134B	134B
134B	291B
134B	7134B
136	136A
136	152A
136	7136A
136A	136A
138	138A
138	3083A
138A	138A
148B	148B
148B	7199B
148C2	148C2
152	152A
152	722A
152	8070A
152A	152A
153	153A
153A	153A
154A	43A
154A	154A
154A	198A
171B	154A
171B	171B
198A	198A
198A	198A
198A	7198A
199A	199A
199A	679B
199A	7199B
199B	148B
199B	199B
199B	679B
199B	737B
199B	7199B
199C2	199B
199C2	199C2
199C2	679B
199C2	7199B
206	136A
206	206A
206	7136A
206A	206A
221B2	622B2
221C2	622C2
233B	233B

Field symbols	Publication symbol
233B	291B
234	234A
234A	234A
236A	236A
244	244A
244	8070A
244A	244A
257	257A
257	7136A
257A	257A
279B	279B
284	3284A
291B	291B
306	3073A
306	3077A
322C2	322C2
322C2	322C2
330	330A
330A	330A
333	3333A
348B	348B
352	3352A
386B	675B
386B	705B
440C2	687C2
451	3107A
451	3451A
481A	481A
533	533
618C2	618C2
618D2	618D2
618D3	618D3
618F	618F
618G	618G
622B2	622B2
622C2	622C2
675B	675B
679B	679B
684B	199B
684B	679B
684B	684B
684B	737B
684B	7199B
687C2	687C2
705B	705B
712A	712A

Field symbols	Publication symbol
722A	722A
737B	737B
749B	749B
802B	802B
802B	7802B
802D	802D
802D	7802B
865	865
865	7865
1083	1083A
1083	3083A
1083A	1083A
1107A	1107A
2027C	618C2
2027D	618D2
2027F	618F
2152	152A
2152	722A
2154A	154A
2171B	171B
2233B	233B
2236A	236A
2322C	322C2
3073A	3073A
3077A	3077A
3083A	3083A
3107A	3107A
3284A	3284A
3333A	3333A
3352A	3352A
3451A	3451A
7134B	7134B
7136A	7136A
7198A	7198A
7199B	7199B
7802B	7802B
7865	7865
8070A	8070A

Soil Identification Legend According to Alphabetical Sequence

Map symbol	Approved map unit name
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded
233B	Birkbeck silt loam, 2 to 5 percent slopes
679B	Blackberry silt loam, 2 to 5 percent slopes
684B	Broadwell silt loam, 2 to 5 percent slopes
136A	Brooklyn silt loam, 0 to 2 percent slopes
7136A	Brooklyn silt loam, 0 to 2 percent slopes, rarely flooded
705B	Buckhart silt loam, 2 to 5 percent slopes
749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes
134B	Camden silt loam, 2 to 5 percent slopes
7134B	Camden silt loam, 2 to 5 percent slopes, rarely flooded
171B	Catlin silt loam, 2 to 5 percent slopes
257A	Clarksdale silt loam, 0 to 2 percent slopes
56B	Dana silt loam, 2 to 5 percent slopes
56B2	Dana silt loam, 2 to 5 percent slopes, eroded
56C2	Dana silt loam, 5 to 10 percent slopes, eroded
45A	Denny silt loam, 0 to 2 percent slopes
152A	Drummer silty clay loam, 0 to 2 percent slopes
722A	Drummer-Milford silty clay loams, 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
119C2	Elco silt loam, 5 to 10 percent slopes, eroded
154A	Flanagan silt loam, 0 to 2 percent slopes
675B	Greenbush silt loam, 2 to 5 percent slopes
67A	Harpster silty clay loam, 0 to 2 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes
3077A	Huntsville silt loam, 0 to 2 percent slopes, frequently flooded
43A	Ipava silt loam, 0 to 2 percent slopes
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
MW	Miscellaneous Water
802D	Orthents loamy, rolling
802B	Orthents loamy, undulating
7802B	Orthents loamy, undulating, rarely flooded
86B	Osco silt loam, 2 to 5 percent slopes
3352A	Palms silty clay loam, overwash, 0 to 2 percent slopes, frequently flooded
153A	Pella silty clay loam, 0 to 2 percent slopes
687C2	Penfield loam, 5 to 10 percent slopes, eroded
330A	Peotone silty clay loam, 0 to 2 percent slopes
865	Pits, gravel
7865	Pits, gravel, rarely flooded
199A	Plano silt loam, 0 to 2 percent slopes
199B	Plano silt loam, 2 to 5 percent slopes
7199B	Plano silt loam, 2 to 5 percent slopes, rarely flooded
199C2	Plano silt loam, 5 to 10 percent slopes, eroded
148B	Proctor silt loam, 2 to 5 percent slopes
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded

Map symbol	Approved map unit name
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded
233B	Birkbeck silt loam, 2 to 5 percent slopes
679B	Blackberry silt loam, 2 to 5 percent slopes
684B	Broadwell silt loam, 2 to 5 percent slopes
136A	Brooklyn silt loam, 0 to 2 percent slopes
7136A	Brooklyn silt loam, 0 to 2 percent slopes, rarely flooded
705B	Buckhart silt loam, 2 to 5 percent slopes
749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes
134B	Camden silt loam, 2 to 5 percent slopes
7134B	Camden silt loam, 2 to 5 percent slopes, rarely flooded
171B	Catlin silt loam, 2 to 5 percent slopes
257A	Clarksdale silt loam, 0 to 2 percent slopes
56B	Dana silt loam, 2 to 5 percent slopes
481A	Raub silt loam, 0 to 2 percent slopes
3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
279B	Rozetta silt loam, 2 to 5 percent slopes
322C2	Russell silt loam, 5 to 10 percent slopes, eroded
236A	Sabina silt loam, 0 to 2 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes
1107A	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded
618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded
618D3	Senachwine clay loam, 10 to 18 percent slopes, severely eroded
618F	Senachwine loam, 18 to 35 percent slopes
618G	Senachwine loam, 35 to 60 percent slopes
138A	Shiloh silty clay loam, 0 to 2 percent slopes
88C	Sparta loamy sand, 5 to 10 percent slopes
712A	Spaulding silty clay loam, 0 to 2 percent slopes
132A	Starks silt loam, 0 to 2 percent slopes
234A	Sunbury silt loam, 0 to 2 percent slopes
737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes
206A	Thorp silt loam, 0 to 2 percent slopes
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
533	Urban land
1083A	Wabash silty clay, undrained, 0 to 2 percent slopes, frequently flooded
3083A	Wabash silty clay, 0 to 2 percent slopes, frequently flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
W	Water
348B	Wingate silt loam, 2 to 5 percent slopes
622B2	Wyanet silt loam, 2 to 5 percent slopes, eroded
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
291B	Xenia silt loam, 2 to 5 percent slopes

**CLASSIFICATION OF PEDONS
SAMPLED FOR LABORATORY ANALYSIS
MACON COUNTY, ILLINOIS
A SUBSET OF MLRA's 108A and 113**

a. Laboratory Data from National Soil Survey Laboratory in Lincoln, Nebraska

Sampled As	Lab Number	Publication Symbol	Approved Series
Allison	81IL-115-005	3077A	Huntsville
Birkbeck	81IL-115-035	233B	Birkbeck
Brooklyn	80IL-115-016	136A	Brooklyn
Dana	80IL-115-019	56B	Dana
Lawson	80IL-115-020	3451A	Lawson
Plano	81IL-115-048	199B	Plano
Russell	81IL-115-036	291B	Xenia
Sabina	81IL-115-009	236A	Sabina
Shiloh	80IL-115-040	138A	Shiloh
Starks	80IL-115-045	132A	Starks
Tice	80IL-115-046	3284A	Tice
Xenia	81IL-115-049	291B	Xenia

b. Engineering Test Data from Illinois Department of Transportation, Springfield, Illinois

Sampled As	Lab Number	Publication Symbol	Approved Series
Allison	81IL-115-005	3077A	Huntsville
Birkbeck	80IL-115-035	233B	Birkbeck
Brooklyn	80IL-115-016	136A	Brooklyn
Dana	80IL-115-020	56B	Dana
Lawson	80IL-115-020	3451A	Lawson
Plano	81IL-115-048	199B	Plano
Russell	81IL-115-036	291B	Xenia
Sabina	81IL-115-009	236A	Sabina
Shiloh	80IL-115-040	138A	Shiloh
Starks	80IL-115-045	132A	Starks tax.
Tice	80IL-115-046	3284A	Tice
Xenia	81IL-115-049	291B	Xenia

c. Laboratory Data from the University of Illinois Pedology Laboratory in Champaign, Illinois.

Sampled As	Lab Number	Publication Symbol	Approved Series
Brooklyn variant	80IL-115-012	206A	Thorp tax.
Thorp	81IL-115-022	206A	Thorp
Sable	81IL-115-030	68A	Sable
Flanagan variant	81IL-115-031	154A	fine-silty incl.
Proctor variant	81IL-115-032	148B	fine-loamy incl. in Proctor
Flanagan variant	81IL-115-033	198A	Deep loess inclusion in Elburn
Flanagan	81IL-115-034	43A	Ipava
Peotone	81IL-115-035	330	Peotone
Ipava	81IL-115-045	43A	Ipava
Ipava	81IL-115-053	43A	Ipava
Drummer	81IL-115-054	68A	Drummer incl. in Sable
Drummer	81IL-115-059	68A	Sable

Sampled As	Lab Number	Publication Symbol	Approved Series
Ipava	82IL-115-022	43A	Ipava
Clarksdale	83IL-115-006	257A	Clarksdale variant
Armiesburg	83IL-115-007	3077A	Huntsville tax.
Dickenson	83IL-115-008	88C	Sparta incl.
Onarga	83IL-115-009	148B	Sandy incl. in Proctor
Jasper	83IL-115-010	687C2	Penfield tax.
Ipava	83IL-115-001	154A	Ipava incl. in Flanagan
Ipava	83IL-115-002	43A	Ipava
Ipava	83IL-115-022	43A	Ipava

Classification of the Soils

(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
Beaucoup-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Endoaquolls
Birkbeck-----	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Blackberry-----	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Broadwell-----	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Brooklyn-----	Fine, smectitic, mesic Mollic Albaqualfs
Buckhart-----	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Camden-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Catlin-----	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
*Clarksdale-----	Fine, smectitic, mesic Mollic Endoaqualfs
Dana-----	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
*Dana-----	Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs
Denny-----	Fine, smectitic, mesic Mollic Albaqualfs
Drummer-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Elburn-----	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Elco-----	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Flanagan-----	Fine, smectitic, mesic Aquic Argiudolls
Greenbush-----	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Harpster-----	Fine-silty, mixed, superactive, mesic Typic Calcicquolls
Hartsburg-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Huntsville-----	Fine-silty, mixed, superactive, mesic Cumulic Hapludolls
Ipava-----	Fine, smectitic, mesic Aquic Argiudolls
Lawson-----	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Milford-----	Fine, mixed, superactive, mesic Typic Endoaquolls
Orthents-----	Fine-loamy, mixed, active, nonacid, mesic Aquic Udorthents
Orthents-----	Loamy, mesic Udorthents
Oscos-----	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Palms-----	Loamy, mixed, euic, mesic Terric Haplosaprists
Pella-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
*Penfield-----	Fine-loamy, mixed, active, mesic Mollic Hapludalfs
Pectone-----	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
Plano-----	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Plano-----	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Proctor-----	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Proctor-----	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Raub-----	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Ross-----	Fine-loamy, mixed, superactive, mesic Cumulic Hapludolls
Rozetta-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Russell-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
*Sabina-----	Fine, smectitic, mesic Aquic Hapludalfs
Sable-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Sawmill-----	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Senachwine-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Shiloh-----	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
*Sparta-----	Sandy, mixed, mesic Typic Hapludolls
Spaulding-----	Fine-silty, mixed, superactive, mesic Typic Calcicquolls
*Starks-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Sunbury-----	Fine, smectitic, mesic Aquollic Hapludalfs
Tama-----	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Thorp-----	Fine-silty, mixed, superactive, mesic Argiaquic Argialbolls
Tice-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Wabash-----	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
Wakeland-----	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents
Wingate-----	Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs
*Wyanet-----	Fine-loamy, mixed, active, mesic Mollic Hapludalfs
Xenia-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs

**Notes to accompany the
Classification and Correlation
of the Soils in
Macon County, Illinois
Prepared by Ron Collman**

This correlation document updates the correlation of soils in soil report #127.

Deep loess soils west of the Shelbyville moraine often have stratified sediments within 80 inches. Outwash soils in this area may have a high content of sand below 80 inches.

At the time of this update, an area east of Decatur was being used to dry lakebed sediments dredged from Lake Decatur. This area was to be reclaimed for agriculture with no immediate plans to remove the material. The area includes the NE quarter of section 3 and the north half of section 2 of Township 16N and Range 3E. The majority of the area is currently under water and has been mapped M-W. Where land is present on the ortho, the soil map units are kept as they were. A levee symbol surrounds the area.

Standardization of Map unit names, slopes, and map unit numbers--These are adjusted to the MLRA legend. Flooding prefixes are added to the map unit symbol for all soils subject to flooding. The letter "A" is added to all nearly level soils. Slope is added to all map unit names.

Standard slope ranges used in this correlation:

A-slope – 0 to 2 percent

B-slope – 2 to 5 percent

C-slope -- 5 to 10 percent

D-slope – 10 to 18 percent

F-slope – 18 to 35 percent

G-slope – 35 to 60 percent

Orthents have non-standard slopes.

Flooding prefix "1", "3", "7", or "8" was added to all soils subject to flooding.

Slope letter "A" was added to all level or nearly level mapping units.

Units correlated to Rarely flooded—These soils typically occur in areas of the FEMA flood zone or predicted flood area based on flooding data of the Sangamon River and its tributaries, elevation maps, and FEMA maps.

Official Series Descriptions—Discrepancies or inconsistencies have been identified for several OSD's. OSD revisions will be made by the MO office.

Allison—(Dropped). (See Huntsville).

Beaucoup—8070A (added). 8070A replaces poorly drained upland soils previously mapped on the floodplain. (See Drummer, Harpster, Hartsburg, and Sable). TUD for Beaucoup is 95IL001008. DMU is 141852.

Birkbeck—233B, 2233B (dropped; goes to 233B). TUD for 233B is OSD80IL115035. DMU is 153465.

Blackberry—679B (added). Blackberry 679B soils replace those Plano 199A and 199B soils previously mapped along the Sangamon, and Christian County joins and on the Wisconsinan till plain. TUD for 679B is 77IL019015. DMU is 151949.

Broadwell—684B. TUD for 684B is 85IL021036. DMU is 155586. 684B in the 100 year floodplain are correlated to 7199B Plano, rarely flooded. (See Plano).

Brooklyn—136A, 7136A (added). TUD for 136A is OSD98IL041004. DMU is 473315. Brooklyn on the 100 year floodplain is correlated to 7136A-Brooklyn, rarely flooded. Also included are Clarksdale, Denny, and Thorp soils previously mapped on the floodplain. 7136A DMU is 523300.

Buckhart—705B (added). It replaces Tama 36B soils along the Logan, Sangamon, and Christian County join. TUD for 705B is OSD99IL021003. DMU is 153985.

Buckhart, till substratum—749B (added). It replaces those 36B Tama units on the Wisconsin till plain. TUD for 749B is 06IL107012. DMU is 501765.

Camden—134B, 7134B (added). TUD for 134B is OSD98IL019008. DMU is 151633. Camden units on the 100 year floodplain are correlated to 7134B-Camden, rarely flooded. Also included are 132A-Starks soils previously mapped on the floodplain. DMU for 7134B is 523301.

Catlin—171B, 2171B (dropped; goes to 171B). The TUD has chroma of 6 in the lower Bt slightly outside the OSD RIC. TUD for 171B is 86IL113053. DMU is 407839.

Clarksdale—257A. TUD for 257A is 83IL115025. DMU is 497464. Clarksdale soils previously mapped in the 100 year floodplain are correlated to 7136A-Brooklyn, rarely flooded.

Taxadjunct statement: The Clarksdale soils in this survey area are taxadjuncts to the series because they have grayer colors in the upper Bt horizon than is defined as the range for the series. This difference, however, does not significantly affect the use, management, or interpretations of the soils. These soils are classified as fine, smectitic, mesic Mollic Endoaqualfs.

Dana—56B, 56B2 (added), 56C2. 56B2 to join DeWitt and Shelby County. The TUD for 56B unit is OSD98IL045002. DMU is 153456. The MUD for 56B2 unit is 88IL113036. The DMU is 1532476. The MUD for 56C2 is 90IL113142. The DMU is 155294.

Taxadjunct statement: Dana silt loam, 2 to 5 percent slopes, eroded and Dana silty clay loam, 5 to 10 percent slopes, eroded have a thinner dark surface layer than is defined as the range for the series. This difference, however, does not significantly affect the use or behavior of the soil. These soils are classified as fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs.

Denny—45A. TUD for 45A is 87IL109064. DMU is 139402. Denny soils previously mapped in the 100 year floodplain are correlated to 7136A. (See Brooklyn).

Downs—(Dropped). (See Greenbush).

Drummer—152A, 2152 (dropped; goes to 152A), 722A (added). Some of the soils previously mapped Drummer on till plains and lake plains and underlain by stratified silty sediments or lacustrine deposits are correlated to 722A Drummer-Milford silty clay loams. Pedon for Drummer component is the OSD77IL019034. DMU is 443051. TUD for 152A is OSD77IL019034. DMU is 151641. Drummer soils previously mapped in the floodplain are correlated to 8070A-Beaucoup, occasionally flooded.

Elburn—198A, 7198A (added). TUD for 198A is OSD85IL021002. DMU is 399244. Elburn units in the 100 year flood plain are correlated to 7198A-Elburn, rarely flooded. Ipava units previously mapped on the floodplain are correlated to 7198A. DMU for 7198A is 497304.

Elco—119C2. The TUD Ap horizon is more acid than defined for the series. TUD for 119C2 is the OSD97IL167026. DMU is 131431.

Flanagan—154A, 2154A (dropped; goes to 154A). TUD for 154A is OSD76IL019022. DMU is 151643.

Greenbush—675B (added). It replaces those soils previously mapped as Downs 386B. TUD for 675B is 86IL187078. DMU is 152601.

Harpster—67A. TUD for 67A is OSD67IL053001. DMU is 142575. Some 67A units are correlated to Spaulding 712A to join with Christian, Logan, and Sangamon Counties. 67A previously mapped on the floodplain is correlated to 8070A-Beaucoup, occasionally flooded and calcareous spot symbols are added.

Hartsburg—244A. Pella and Hartsburg soils are separated based on associated soils and geology. TUD for 244A is OSD96IL107010. DMU is 153413. 244A on the floodplain is correlated to 8070A-Beaucoup, occasionally flooded.

Huntsville—3077A. (added). Huntsville replaces Allison soils. Lab data was used for this correlation. Flooding frequency is changed to frequent from occasional. TUD for 3077A is 90IL057035. The DMU is 140172.

Ipava—43A. TUD for 43A is OSD78IL095016. DMU is 139401. Ipava soils previously mapped in the 100 year flood plain are correlated to 7198A-Elburn, rarely flooded.

Jasper—(Dropped). (See Penfield).

Lawson—3451A. Some of the Lawson mapped is fine-loamy and will be noted in the map unit description. TUD for 3451A is 84IL195326. DMU is 154674. Lawson soils contain slightly more sand in the lower part of the control section than defined for the Lawson series.

Miami—(Dropped). (See Senachwine).

Milford—722A (added). Drummer-Milford silty clay loams replaces those Drummer units that were mapped on till plains and lake plains and are underlain by stratified silty sediments or lacustrine deposits. Pedon for the Milford component is 02IL139002. DMU is 443051. The Milford TUD is formed in 40 to 60 inches of loess while the OSD states Milford formed entirely in lacustrine sediments. TUD has a silt loam layer in the 2B that is out of OSD RIC.

Miscellaneous water—MW (added). Replaces some water units and is added based on photo interpretation. DMU is 155361.

Orthents—802B, 802D, 7802B (added). 802B Orthents, loamy, undulating and Orthents, loamy, rolling. 802B units in the 100 year floodplain are correlated to 7802B. Also included are 802D units in the floodplain. DMU for 802B is 153466. DMU for 802D is 443076. DMU for 7802B is 523303. Slope is only added to the MU description. A decision was made at the correlation meeting to add soil delineations to the area previously mapped 802B at the airport near Decatur. Photo tone and adjacent soil lines were used to extend mapping lines into the area.

Oscos—86B (added). It replaces 36B Tama previously mapped along joins to DeWitt, Logan, and Sangamon Counties and on the Illinoian till plain. TUD for 86B is OSD56IL015002. DMU is 141764.

Palms—3352A. TUD is 84IL115001. DMU is 497899. Palms soils are in only one small area which is known to residents of the survey area.

Parr—(Dropped). (See Wyand).

Pella—153A. Pella and Hartsburg soils are separated based on associated soils and geology. TUD for 153A is 76IL019033. DMU is 153458.

Penfield—687C2 (added). It replaces those soils previously mapped Jasper 440C2. TUD for 687C2 is 90IL113109. DMU is 408766.

Taxadjunct statement: The Penfield soils in this survey area are taxadjuncts to the series because they have a thinner dark surface layer than is defined as the range for the series. This difference, however, does not significantly affect the use, management, or interpretations of the soils. These soils are classified as fine-loamy, mixed, superactive, mesic Mollic Hapludalfs.

Peotone—330A. TUD for 330A is 81IL115035. DMU is 154675.

Pits, gravel—865. 7865 (added). DMU for 865 is 153492. 7865 is added for 865 units in the 100 year floodplain. DMU for 7865 is 468240.

Plano—199A, 199B, 199C2. 7199B (added). Plano soils in Macon County were identified as moderately well drained in the publication. The 199A and 199B map units are correlated to 679B Blackberry on till planes. TUD for 199A is OSD87IL175002. DMU is 151285. MUD for 199B is 86IL011011. DMU is 156397. MUD for 199C2 is 86IL011010. DMU is 151288. 199B units in the 100 year floodplain are correlated to 7199B-Plano, rarely flooded. Also included are 199A, 199C2, 684B-Broadwell, 148B-Proctor, and 88C-Sparta units on the floodplain. DMU for 7199B is 497303.

Taxadjunct statement: Plano silt loam, 5 to 10 percent slopes, eroded has a thinner dark surface layer than is defined as the range for the series. This difference, however, does not significantly affect the use or behavior of the soil. These soils are classified as fine-silty, mixed, superactive, mesic Mollic Hapludalfs.

Proctor—148B, 148C2. TUD for 148B is 88IL045029. DMU is 140760. MUD for 148C2 is 90IL113117. DMU is 408850. 148B previously mapped on the 100 year floodplain are correlated to 7199B-Plano, rarely flooded.

Taxadjunct statement: Proctor silt loam, 5 to 10 percent slopes, eroded has a thinner dark surface layer than is defined as the range for the series. This difference, however, does not significantly affect the use or behavior of the soil. These soils are classified as fine-silty, mixed, superactive, mesic Mollic Hapludalfs.

Raub—481A. The 481A TUD is 76IL019053. The DMU is 151832.

Presently there is not a consensus that till is densic in all areas of Illinois where the soils developed in loam till. A review of the lab data for loam till soils in Macon and surrounding counties suggests that in this part of Illinois the loam till is densic. The data map unit for the Raub series left the term "dense material" out of the restrictive feature record since that data map unit is used elsewhere in the State. Until this issue is resolved, there will be a discrepancy between the master horizon suffix for the 2C horizon and what is populated as "densic material" in NASIS.

Ross—3073A (added). Allison soils mapped at the Christian County join are correlated to Ross 3073A. TUD for 3073A 85IL179017. DMU is 154980. Ross in MLRA 115C does not have carbonates within a depth of 45 inches as defined in the Ross OSD, the OSD does allow lower pH in the B and C horizons.

Rozetta—279B. TUD for 279B is 95IL057001. DMU is 141790.

Russell—322C2, 2322C (dropped; goes to 322C2). TUD for 322C2 88IL045041. DMU is 153457.

Sabina—236A, 2236A (dropped; goes to 236A). TUD for 236A is 88IL113037. DMU is 409602.

Taxadjunct statement: The Sabina soils in this survey area are taxadjuncts to the series because they have browner colors in the upper Bt horizon than is defined as the range for the series. This difference, however, does not significantly affect the use, management, or interpretations of the soils. These soils are classified as fine, smectitic, mesic Aquic Hapludalfs.

Sable—68A. TUD for 68A is OSD57IL187001. DMU is 155134. Sable previously mapped on floodplains is correlated to 8070A Beaucoup.

Sawmill—3107A, 1107A (added). TUD for 3107A is OSD99IL167008. DMU is 153474. 1107A replaces those Sawmill soils that are undrained near the Sangamon River. MUD for 1107A is 85IL195338. DMU for 1107A is 154673.

Senachwine—618C2, 618D2, 618D3, 618F, 618G (all Added). Replace those soils previously mapped as Miami. Miami Series was reclassified as Oxyaquic and the soils in Macon County are Typic. 27C2 and 2027C are correlated to 618C2. MUD for 618C2 is 82IL011182. DMU is 153459. 27D2 and 2027D are correlated to 618D2. TUD for 618D2 is OSD82IL011187. DMU is 153460. 27E3 is correlated to 618D3 or 618F based on topo. MUD for 618D3 is 91IL139011. DMU is 154668. 27F and 2027F are correlated to 618F. MUD for 618F is 82IL011080. DMU is 153461. MUD for 618G is 83IL039008. DMU for 618G is 153399.

Shiloh—138A. TUD for 138A is OSD0IL049001. DMU is 464247. Shiloh previously mapped in flooded areas is correlated to 3083A Wabash, frequently flooded.

Sparta—88C. Sparta TUD is out of the OSD range for Elevation, MAAT, MAP, and FFD's. A few small 88C units previously mapped on the 100 year floodplain are correlated to 7199B-Plano, rarely flooded with sand symbols added. TUD for 88C is 83IL115008. DMU is 520624.

Taxadjunct statement: The Sparta soils in this survey area are taxadjuncts to the series because they have a cambic horizon that is not defined in the range for the series. This difference, however, does not significantly affect the use, management, or interpretations of the soils. These soils are classified as sandy, mixed, mesic Typic Hapludolls.

Spaulding—712A (added). It replaces Harpster 67A in areas along joins with Christian, Sangamon and Logan Counties. TUD for 712A is OSD99IL167004. DMU is 154105.

Starks—132A. TUD for 132A is 82IL029022. DMU is 494347. This taxadjunct classifies as fine-silty, mixed, superactive, mesic Aquic Hapludalfs. 132A units in the 100 year floodplain are correlated to 7134B-Camden, rarely flooded.

Taxadjunct statement: The Starks soils in this survey area are taxadjuncts to the series because they have browner colors in the upper Bt horizon than is defined as the range for the series. This difference, however, does not significantly affect the use, management, or interpretations of the soils. The series are classified as fine-silty, mixed, superactive, mesic Aeric Endoaqualfs.

Sunbury 234A. TUD for 234A is OSD98IL041003. DMU is 153453. These soils have outwash sediments in the 2B horizon and the upper part of the C horizon, and are sandy loam in the C horizon. These properties place these soils outside the range of the Sunbury series. However, they are fine textured in the control section and are underlain at a depth of about 60 to 65 inches by loam till and therefore are more like Sunbury soils than any other series. These differences are not enough to effect classification.

Tama—(Dropped). (See Buckhart, Osco, and Tama, very deep to sand).

Tama, very deep to sand—737B (added). This map unit replaces areas previously mapped as Plano, Broadwell, and Tama along the join to Logan County and Tama units in the Western part of Macon County that are adjacent to outwash soils. TUD for 737B is 06IL107021. DMU is 498058.

Thorp—206A. TUD for 206A is 96IL099008. DMU is 408480. Areas previously mapped Thorp on the 100 year floodplain are correlated to 7136A Brooklyn, rarely flooded.

Tice—3284A. TUD for 3284A is 80IL115046. DMU is 154609.

Urban land—DMU is 151935.

Wabash—1083A, 3083A (added). 3083A replaces those Wabash soils that are cultivated and those units of 138-Shiloh that are on the floodplain. DMU for 1083 is 523306. TUD for 3083 is the Macon County representative pedon. DMU is 523307. The mollic epipedon is slightly thinner (6 cm less) than defined for the Wabash series. The original publication pedon described a 4 inch Ap horizon that was silty clay loam with a field estimated clay content of 38 percent. After review, this texture is revised to silty clay and the Ap was extended to 10 inches.

Wakeland—3333A. TUD for 3333A is 85IL079045. DMU is 465506. Wakeland soils contain more thin strata of loam, sandy loam, and loamy sand in the control section than defined for the Wakeland series.

Water—DMU is 155171. New water units are added based on photo tone. Some areas of Water are correlated to Miscellaneous Water-MW based on photo interpretation.

Wingate—348B. TUD for 348B is OSD87IL045034. DMU is 140783.

Wyanet 622B2 (added), 622C2 (added). Wyanet replaces those soils previously mapped as Parr 221B2 and 221C2. MUD for 622B2 is 83IL011017. DMU is 154672. TUD for 622C2 is 83IL011067. DMU is 153462. Loam is a similar surface texture inclusion.

Taxadjunct statement: The Wyanet soils in this survey area are taxadjuncts to the series because they have a thinner dark surface layer than is defined as the range for the series. This difference, however, does not significantly affect the use, management, or interpretations of the soils. These soils are classified as fine-silty, mixed, superactive, mesic Mollic Hapludalfs.

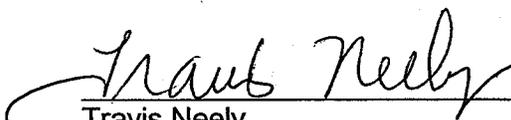
Xenia—291B. The TUD has value of 3 in surface not described in OSD range. TUD for 291B is 76IL019042. DMU is 151661.

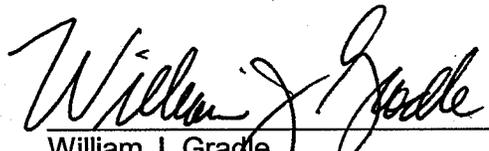
CERTIFICATION STATEMENT

The MLRA Region 11 Team Leader certifies that:

- a. The fieldwork activities were completed in July 2005.
- b. Macon County joins acceptably with the following SSURGO certified areas:
Shelby County to the south was published in September 1972.
Piatt County to the northeast was published in 1991 and is currently being updated.
- c. Macon County joins exactly with the following updated SSURGO certified areas:
Christian County to the southwest was updated and published in 2004.
DeWitt County to the north was updated in 2006.
Logan County to the northwest was updated in 2006.
Moultrie County to the east was updated and published in April 2005.
Sangamon County to the west was updated and published in 2004.
- d. Interpretations have been coordinated and agree with adjoining survey areas.
- e. The location of all typical pedons has been checked for correct location and for the soil delineations using that name. Not all typical pedons are located in Macon County.
- f. All typical pedons are classified according to Keys of Soil Taxonomy, tenth edition, 2006.
- g. The digital soil maps will be reviewed for accuracy and consistency.

Approval Signatures and Date

 4/24/07
Travis Neely Date
MLRA Region 11 Team Leader
USDA, NRCS
Indianapolis, IN 46278

 4-18-2007
William J. Gradle Date
State Conservationist
USDA, NRCS
Champaign, IL 61821

