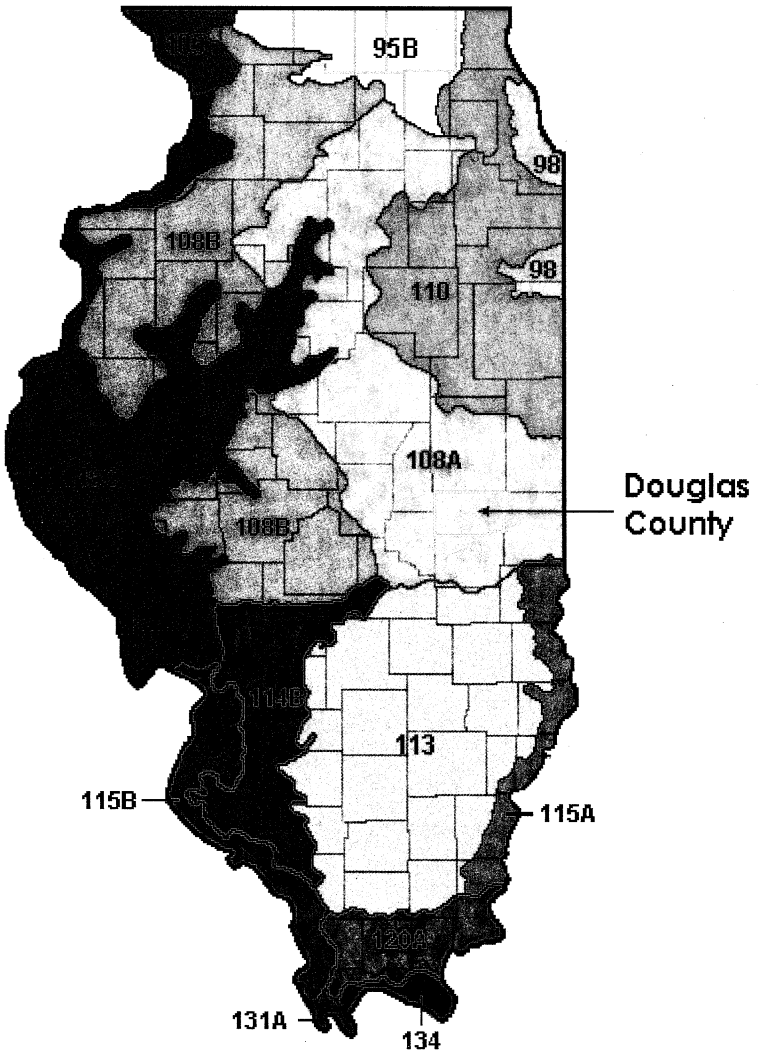
United States
Department of
Agriculture

**Natural Resources
Conservation Service**

**East Central Glaciated
Regional MLRA
Soil Survey Office
Indianapolis, IN**

Classification and Correlation of Soils in Douglas County, Illinois

A Subset of MLRA 108A



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

115A, B, and C - Central Mississippi Valley Wooded Slopes

120A - Kentucky and Indiana Sandstone and Shale Hills and Valleys

131A - Southern Mississippi Valley Alluvium

134 - Southern Mississippi Valley Silty Uplands

September 2004

John Doll

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

CLASSIFICATION AND CORRELATION OF THE SOILS OF DOUGLAS COUNTY, ILLINOIS

A SUBSET OF MLRA 108A

September, 2004

This correlation was prepared by Ronald D. 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 Douglas County, a subset of MLRA 108A. A field assistance (tech visit) and correlation conference was held October 6-7, 2003. This correlation is based on decisions made at the tech visit which were based on transect data, pedon descriptions, laboratory data, field soil maps, join statements, descriptive legend, "Classification and Correlation of the Soils of Douglas County, Illinois" - 1967, and the published soil survey report - 1971.

HEADNOTE FOR DETAILED SOIL SURVEY LEGEND

This update of Douglas County, Illinois is a subset of the Major Land Resource Area (MLRA) 108A soil survey area. 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 or miscellaneous area. 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
Douglas County, Illinois

Field symbol	Field map unit name	Publi-cation symbol	Approved map unit name
56B	Dana silt loam, 2 to 5 percent slopes	56B	Dana silt loam, 2 to 5 percent slopes
56B	DANA SILT LOAM, 2 TO 4 PERCENT SLOPES		
148B	PROCTOR SILT LOAM, 1 TO 4 PERCENT SLOPES		
481B	RAUB SILT LOAM, 2 TO 4 PERCENT SLOPES		
481B2			
55B			
55B2			
56A			
56B2			
145B			
145B2			
146B			
148A			
148B1			
148B2			
67A	Harpster silty clay loam, 0 to 2 percent slopes	67A	Harpster silty clay loam, 0 to 2 percent
67	HARPSTER SILTY CLAY LOAM		
638A			
69A	Milford silty clay loam, 0 to 2 percent slopes	69A	Milford silty clay loam, 0 to 2 percent slopes
69	MILFORD SILTY CLAY LOAM		
129			
129A			
129A+			
465A			
132A	Starks silt loam, 0 to 2 percent slopes	132A	Starks silt loam, 0 to 2 percent slopes
132	STARKS SILT LOAM		
134A	CAMDEN SILT LOAM, 0 TO 2 PERCENT SLOPES		
151	RIDGEVILLE FINE SANDY LOAM		
132A			
132B			
140B			
151A			
184B			
618A1			
134B	Camden silt loam, 2 to 5 percent slopes	134B	Camden silt loam, 2 to 5 percent slopes
134B	CAMDEN SILT LOAM, 2 TO 4 PERCENT SLOPES		
243B	ST. CHARLES SILT LOAM, 1 TO 4 PERCENT SLOPES		
134B1			
134B2			
137A			
137B			
137B1			
137B2			
206			
206A0			
328A			
383A			
383B			
441A			
449B			
1252A			

Soil Correlation (Continued)

Field symbol	Field map unit name	Publi-cation symbol	Approved map unit name
136A 136 206 206A0 328A 441A 1252A	Brooklyn silt loam, 0 to 2 percent slopes BROOKLYN SILT LOAM	136A	Brooklyn silt loam, 0 to 2 percent slopes
149A 149 149A0 149B	Brenton silt loam, 0 to 2 percent slopes BRENTON SILT LOAM	149A	Brenton silt loam, 0 to 2 percent slopes
152A 152 152+ 52A 125A 126B 152A 152A+ 594A	Drummer silty clay loam, 0 to 2 percent slopes DRUMMER SILTY CLAY LOAM DRUMMER SILT LOAM, OVERWASH	152A	Drummer silty clay loam, 0 to 2 percent slopes
154A 154A 154B V154A V154B 2993A	Flanagan silt loam, 0 to 2 percent slopes FLANAGAN SILT LOAM, 0 TO 2 PERCENT SLOPES FLANAGAN SILT LOAM, 2 TO 4 PERCENT SLOPES	154A	Flanagan silt loam, 0 to 2 percent slopes
171B 171B 154B 171B2 385B 591A V154B	Catlin silt loam, 2 to 5 percent slopes CATLIN SILT LOAM, 2 TO 4 PERCENT SLOPES FLANAGAN SILT LOAM, 2 TO 4 PERCENT SLOPES	171B	Catlin silt loam, 2 to 5 percent slopes
198A 198 376 376A 382A V376A	Elburn silt loam, 0 to 2 percent slopes ELBURN SILT LOAM	198A	Elburn silt loam, 0 to 2 percent slopes
199B 199B 377A 377B 381B	Plano silt loam, 2 to 5 percent slopes PLANO SILT LOAM, 1 TO 4 PERCENT SLOPES	199B	Plano silt loam, 2 to 5 percent slopes
208A 208 207A	Sexton silt loam, 0 to 2 percent slopes SEXTON SILT LOAM	208A	Sexton silt loam, 0 to 2 percent slopes

Soil Correlation (Continued)

Field symbol	Field map unit name	Publi-cation symbol	Approved map unit name
219A	Millbrook silt loam, 0 to 2 percent slopes	219A	Millbrook silt loam, 0 to 2 percent slopes
219	MILLBROOK SILT LOAM		
219B			
219B2			
226A			
226B			
296A			
233B	Birkbeck silt loam, 2 to 5 percent slopes	233B	Birkbeck silt loam, 2 to 5 percent slopes
236B	SABINA SILT LOAM, 2 TO 4 PERCENT SLOPES		
233C2			
V236B			
234A	Sunbury silt loam, 0 to 2 percent slopes	234A	Sunbury silt loam, 0 to 2 percent slopes
234A	SUNBURY SILT LOAM, 0 TO 2 PERCENT SLOPES		
V234A			
234B	Sunbury silt loam, 2 to 5 percent slopes	234B	Sunbury silt loam, 2 to 5 percent slopes
234B	SUNBURY SILT LOAM, 2 TO 4 PERCENT SLOPES		
236A	Sabina silt loam, 0 to 2 percent slopes	236A	Sabina silt loam, 0 to 2 percent slopes
236A	SABINA SILT LOAM, 0 TO 2 PERCENT SLOPES		
256A			
V236A			
V236A1			
242A	Kendall silt loam, 0 to 2 percent slopes	242A	Kendall silt loam, 0 to 2 percent slopes
242	KENDALL SILT LOAM		
284A			
384A			
384B1			
244A	Hartsburg silty clay loam, 0 to 2 percent slopes	244A	Hartsburg silty clay loam, 0 to 2 percent slopes
153	PELLA SILTY CLAY LOAM		
153A			
291B	Xenia silt loam, 2 to 5 percent slopes	291B	Xenia silt loam, 2 to 5 percent slopes
291B	XENIA SILT LOAM, 2 TO 4 PERCENT SLOPES		
496B	FINCASTLE SILT LOAM, 2 TO 4 PERCENT SLOPES		
291B2			
291B3			
322B			
322B2			
345B1			
465B			
491B			
496B2			
2136B			

Soil Correlation (Continued)

Field symbol	Field map unit name	Publication symbol	Approved map unit name
322C2	Russell silt loam, 5 to 10 percent slopes, eroded	322C2	Russell silt loam, 5 to 10 percent slopes, eroded
322C2	RUSSELL SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED		
322C3	RUSSELL SOILS, 4 TO 7 PERCENT SLOPES, SEVERELY ERODED		
322D2	RUSSELL SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
291C2			
291C3			
322D3			
348C2			
348C3			
385C2			
497C2			
330A	Peotone silty clay loam, 0 to 2 percent slopes	330A	Peotone silty clay loam, 0 to 2 percent slopes
330	PEOTONE SILTY CLAY LOAM		
330A+			
380A			
W330A			
W3330A			
344B	Harvard silt loam, 2 to 5 percent slopes	344B	Harvard silt loam, 2 to 5 percent slopes
243B	ST. CHARLES SILT LOAM, 1 TO 4 PERCENT SLOPES		
344B	HARVARD SILT LOAM, 1 TO 4 PERCENT SLOPES		
344C2	HARVARD SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED		
79B			
148C1			
148C2			
344A			
344B2			
344C			
381A			
381C2			
384B1			
384B3			
348B	Wingate silt loam, 2 to 5 percent slopes	348B	Wingate silt loam, 2 to 5 percent slopes
353B	TORONTO SILT LOAM, 2 TO 4 PERCENT SLOPES		
3			
60A			
62B			
348B2			
353B2			
353A	Toronto silt loam, 0 to 2 percent slopes	353A	Toronto silt loam, 0 to 2 percent slopes
353A	TORONTO SILT LOAM, 0 TO 2 PERCENT SLOPES		
62A			

Soil Correlation (Continued)

Field symbol	Field map unit name	Publi-cation symbol	Approved map unit name
375A	Rutland silt loam, 0 to 2 percent slopes	375A	Rutland silt loam, 0 to 2 percent slopes
375A	RUTLAND SILT LOAM, 0 TO 2 PERCENT SLOPES		
375B	RUTLAND SILT LOAM, 2 TO 4 PERCENT SLOPES		
154A	FLANAGAN SILT LOAM, 0 TO 2 PERCENT SLOPES		
154B	FLANAGAN SILT LOAM, 2 TO 4 PERCENT SLOPES		
89A			
189A			
189B			
245B			
293A			
293B			
293B2			
294B			
294B2			
295A			
295B			
295B2			
395A			
448A			
448B			
448B2			
593B			
2993A			
V154A			
448C3	Mona loam, 5 to 10 percent slopes, severely eroded	448C3	Mona loam, 5 to 10 percent slopes, severely eroded
134C2	CAMDEN SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED		
134D2	CAMDEN SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
134D3	CAMDEN SOILS, 7 TO 25 PERCENT SLOPES, SEVERELY ERODED		
228D3	NAPPANEE SOILS, 5 TO 12 PERCENT SLOPES, SEVERELY ERODED		
91C3			
134C1			
137C2			
137C3			
137D2			
137D3			
148C3			
148D3			
192C3			
192D2			
228C2			
228C3			
228D2			
228E2			
228F2			
293C3			
294C2			
294C3			
350C2			
350C3			
355C			
355C2			
355C3			
355D2			
355D3			
355E2			
355F2			
357C2			
357C3			
448B			
448B2			
448C			
448C2			

Soil Correlation (Continued)

Field symbol	Field map unit name	Publi-cation symbol	Approved map unit name
481A 481 59A	Raub silt loam, 0 to 2 percent slopes RAUB SILT LOAM, 0 TO 2 PERCENT SLOPES	481A	Raub silt loam, 0 to 2 percent slopes
496A 496A 496 496F	Fincastle silt loam, 0 to 2 percent slopes FINCASTLE SILT LOAM, 0 TO 2 PERCENT SLOPES	496A	Fincastle silt loam, 0 to 2 percent slopes
533 Ia	Urban land INDUSTRIAL AREAS	533	Urban land
554A 554A 192A 256A 350A 356A 357A	Kernan silt loam, 0 to 2 percent slopes KERNAN SILT LOAM, 0 TO 2 PERCENT SLOPES	554A	Kernan silt loam, 0 to 2 percent slopes
554B 554B 192B 228B3 265B 293B3 350B 355B 355B2 356B 356B2 357B 357B2 357B3	Kernan silt loam, 2 to 5 percent slopes KERNAN SILT LOAM, 2 TO 4 PERCENT SLOPES	554B	Kernan silt loam, 2 to 5 percent slopes
570B 131B 134A 134B 151 131A 131B2 134B1 134B2 137A 137B 137B1 137B2 140B 151A 184B 190A 190B 200A 727B	Martinsville silt loam, 2 to 5 percent slopes ALVIN FINE SANDY LOAM, 2 TO 4 PERCENT SLOPES CAMDEN SILT LOAM, 0 TO 2 PERCENT SLOPES CAMDEN SILT LOAM, 2 TO 4 PERCENT SLOPES RIDGEVILLE FINE SANDY LOAM	570B	Martinsville silt loam, 2 to 5 percent slopes

Soil Correlation (Continued)

Field symbol	Field map unit name	Publication symbol	Approved map unit name
570C2	Martinsville loam, 5 to 10 percent slopes, eroded	570C2	Martinsville loam, 5 to 10 percent slopes, eroded
134C2	CAMDEN SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED		
134D2	CAMDEN SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
134D3	CAMDEN SOILS, 7 TO 25 PERCENT SLOPES, SEVERELY ERODED		
79D2			
124C2			
134C1			
134C3			
137C2			
137C3			
137D2			
137D3			
148C3			
148D3			
727C2			
570D2	Martinsville loam, 10 to 18 percent slopes, eroded	570D2	Martinsville loam, 10 to 18 percent slopes, eroded
134D2	CAMDEN SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
134D3	CAMDEN SOILS, 7 TO 25 PERCENT SLOPES, SEVERELY ERODED		
79D2			
131D3			
131E2			
134E2			
134F2			
137D2			
137D3			
137E2			
137F2			
618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded	618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded
27C2	MIAMI SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED		
27C3	MIAMI SOILS, 4 TO 7 PERCENT SLOPES, SEVERELY ERODED		
27D2	MIAMI SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
27D3	MIAMI SOILS, 7 TO 12 PERCENT SLOPES, SEVERELY ERODED		
322C3	RUSSELL SOILS, 4 TO 7 PERCENT SLOPES, SEVERELY ERODED		
322D2	RUSSELL SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
24C2			
24C3			
24D2			
24D3			
27B			
146C3			
224C3			
224D2			
224D3			
322D3			

Soil Correlation (Continued)

Field symbol	Field map unit name	Publi-cation symbol	Approved map unit name
618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded	618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded
27C3	MIAMI SOILS, 4 TO 7 PERCENT SLOPES, SEVERELY ERODED		
27D2	MIAMI SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
224E2	STRAWN SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED		
24D3			
27E2			
224D2			
224D3			
224E3			
244E2			
618F	Senachwine silt loam, 18 to 35 percent slopes, eroded	618F	Senachwine silt loam, 18 to 35 percent slopes
224E2	STRAWN SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED		
224F2	STRAWN SILT LOAM, 18 TO 40 PERCENT SLOPES, ERODED		
24F2			
27E2			
224E3			
224F3			
224G2			
244E2			
656C2	Octagon silt loam, 5 to 10 percent slopes, eroded	656C2	Octagon silt loam, 5 to 10 percent slopes, eroded
57C2	MONTMORENCI SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED		
55C			
55C2			
55C3			
55D2			
55D3			
56C			
56C2			
56C3			
60C2			
60C3			
60D2			
60D3			
145C			
145C2			
145C3			
145D2			
145D3			
171C2			
171D2			
353C2			

Soil Correlation (Continued)

Field symbol	Field map unit name	Publication symbol	Approved map unit name
663B	Clare silt loam, 2 to 5 percent slopes	663B	Clare silt loam, 2 to 5 percent slopes
148B	PROCTOR SILT LOAM, 1 TO 4 PERCENT SLOPES		
149	BRENTON SILT LOAM		
344B	HARVARD SILT LOAM, 1 TO 4 PERCENT SLOPES		
148A			
148B1			
148B2			
149B			
344A			
344B2			
376B			
381A			
679B	Blackberry silt loam, 2 to 5 percent slopes	679B	Blackberry silt loam, 2 to 5 percent slopes
198B	ELBURN SILT LOAM, 2 TO 4 PERCENT SLOPES		
199B	PLANO SILT LOAM, 1 TO 4 PERCENT SLOPES		
376B			
722A	Drummer-Milford silty clay loams, 0 to 2 percent slopes	722A	Drummer-Milford silty clay loams, 0 to 2 percent slopes
69	MILFORD SILTY CLAY LOAM		
152	DRUMMER SILTY CLAY LOAM		
152+	DRUMMER SILT LOAM, OVERWASH		
52A			
126A			
126A+			
126B			
142A			
152A			
152A+			
594A			
747A	Milford silty clay loams, 0 to 2 percent slopes	747A	Milford silty clay loams, 0 to 2 percent slopes
69	MILFORD SILTY CLAY LOAM		
103LA			
129			
129A			
129A+			
465A			
W129A			
W330A			
W3330A			
802D	Orthents loamy, rolling	802D	Orthents loamy, rolling
Bp	BORROW PITS		
Ml	MADE LAND		
~~			
536			
802B			
802E			
866			
809F	Orthents loamy-skeletal, acid, steep	809F	Orthents loamy-skeletal, acid, steep
Md	MINE DUMP		
536A			
864	Pits, quarries	864	Pits, quarries
Gp	GRAVEL PITS		

Soil Correlation (Continued)

Field symbol	Field map unit name	Publi-cation symbol	Approved map unit name
865 Gp	Pits, gravel GRAVEL PITS	865	Pits, gravel
1107A 451 W107 451A 457A W107A W107L W451A W451L	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded, undrained LAWSON SILT LOAM SAWMILL SILTY CLAY LOAM, WET	1107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded, undrained
3107A 107 451 107A 107A+ 451A 457A 1343	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded SAWMILL SILTY CLAY LOAM LAWSON SILT LOAM	3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
3183A 134A 151 219 451 132A 132B 140B 149A0 149B 151A 184B 219B 219B2 226A 226B 296A 384A 384B1 451A 457A 618A1	Shaffton silt loam, 0 to 2 percent slopes, frequently flooded CAMDEN SILT LOAM, 0 TO 2 PERCENT SLOPES RIDGEVILLE FINE SANDY LOAM MILLBROOK SILT LOAM LAWSON SILT LOAM	3183A	Shaffton silt loam, 0 to 2 percent slopes, frequently flooded
3405A W83 W83A W83A0 W83AO W83L	Zook silty clay, 0 to 2 percent slopes, frequently flooded WABASH SILTY CLAY, WET	3405A	Zook silty clay, 0 to 2 percent slopes, frequently flooded

Soil Correlation (Continued)

Field symbol	Field map unit name	Publi-cation symbol	Approved map unit name
8682A	Medway loam, 0 to 2 percent slopes, occasionally flooded	8682A	Medway loam, 0 to 2 percent slopes, occasionally flooded
131B	ALVIN FINE SANDY LOAM, 2 TO 4 PERCENT SLOPES		
132	STARKS SILT LOAM		
134A	CAMDEN SILT LOAM, 0 TO 2 PERCENT SLOPES		
134B	CAMDEN SILT LOAM, 2 TO 4 PERCENT SLOPES		
151	RIDGEVILLE FINE SANDY LOAM		
131A			
131B2			
134B1			
134B2			
137A			
137B			
137B1			
137B2			
190A			
190B			
383A			
383B			
727B			
MW	Miscellaneous water	MW	Miscellaneous water
W	Water	W	Water

Series established by this correlation: None

Series added to previous correlated legend: Birkbeck, Blackberry, Clare, Hartsburg, Martinsville, Medway, Mona, Octagon, Senachwine, Shaffton, Wingate, and Zook.

Series dropped from previously correlated legend: Alvin, Lawson, Miami, Montmorenci, Nappanee, Pella, Proctor, Ridgeville, St. Charles, Strawn, and Wabash

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

Prior soil survey publications: The last soil survey of Douglas County was completed in 1966 and published by the United States Department of Agriculture, Soil Conservation Service in 1971. It is Illinois Agricultural Experiment Station Soil Report No. 89, "Soil Survey of Douglas County, Illinois". In addition, University of Illinois Agricultural Experiment Station Soil Report No. 43, "Douglas County Soils," was published in 1929. Reference to the prior soil surveys will be included in the literature citation of the manuscript. This survey replaces the 1971 soil survey and provides additional data, updated soil interpretations, and digital soil maps at a 1:12,000 scale on an orthophoto base.

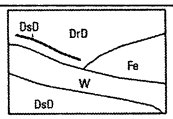
Join statement: Douglas County, which was published in 1971, joins 5 modern soil surveys. These are Champaign, Edgar, Coles, Moultrie, and Piatt Counties. Champaign County to the north was published in 1982 then updated and SSURGO certified with Soil View available in 2002. Edgar County to the east was published in 2002 and is SSURGO certified. Coles County to the south was published in 1993 and is currently being updated. Moultrie County was published in 1998 then updated and SSURGO certified with Soil View available in 2003. Piatt County to the northwest was published in 1991. An exact join will be completed with the SSURGO certified counties and with the other counties as they are updated to the MLRA legend.

Disposition of field sheets: The original field sheets prior to the 1967 final correlation digitally ratioed from the scale of 1:15,840 to 1:12,000. These maps were used to recompile by hand the soils layer onto Mylar sheets with 1:12,000 scale orthophoto quarter quads serving as base. The new maps serve as the base maps for the updated soil survey of Douglas County. Publication scale is 1:12,000 according to SSURGO standards. This survey will be certified for SSURGO at the Kansas Digitizing Center. Compiled mylars will be maintained at the MLRA Project Office. The original field sheets will be archived at the MLRA Project Office.

Instructions for map compilation and map finishing: Map recompilation was completed by the Charleston MLRA team in 2003. The soils and conventional and special symbols on the original field sheets were recompiled on Mylar separates at a 1:12,000 scale. The soils layer was delivered to the Kansas Digitizing Center for scanning and digital processing. The conventional and special symbols layer will be delivered to the Illinois NRCS state office for digital map finishing. Symbols for map finishing are those approved for SSURGO standards and as shown in this document. The Charleston MLRA team and Illinois NRCS state office GIS staff will complete a final check of the digital project before delivering the product to NCGC for SSURGO certification.

Conventional and special symbols legend: Only those symbols indicated on the attached NRCS-SOILS-37A will be placed on the maps. The publication legend will be the entire NRCS-SOILS-37A legend. There are no ad hoc symbols used in this survey area.

SOIL SURVEY FEATURES

SOIL DELINEATIONS AND LABELS	

STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES

Short steep slope	.....

AD HOC FEATURES

(NONE)

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.	⌞ ⊥ +

TRANSPORTATION

(NONE)

ROAD EMBLEMS

Interstate	
Federal	
State	

LOCATED OBJECTS

(NONE)

HYDROGRAPHIC FEATURES (Optional - NONE)

DEFINITIONS AND GUIDELINES FOR USE OF CONVENTIONAL AND SPECIAL SYMBOLS FOR DOUGLAS COUNTY, ILLINOIS A SUBSET OF MLRA 108A

Description	Label	Definitions and Guidelines
Cultural Features		
Land Division Corners (section)		Section corners are shown, and section numbers are placed as close to the center of the section as possible.
Interstate, Federal, and State Road interstate, federal, Emblems		Use appropriate symbols for and state roads. Other roads will not be labeled.
Short, steep slope	SLP	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.

CORRELATION NOTE:

The Overwash spot symbol that was previously correlated for Soil Report #89 is dropped from this correlation. This spot symbol was used infrequently and will be considered as an inclusion in the map unit.

The marsh symbol that was previously correlated for Soil Report #89 is dropped from this correlation. This spot symbol was used infrequently in wet soils and will be considered as an inclusion in the map unit.

The muck symbol that was previously correlated for 3 units near Hindsboro in Soil Report #89 is dropped from this correlation. These areas are considered to be inclusions in the correlated map unit.

Soil Mapunit Symbol Conversion Legend
Douglas County, Illinois
08/09/2004

Field symbols	Publication symbol
~~	802D
3	348B
24C2	618C2
24C3	618C2
24D2	618C2
24D3	618C2
24D3	618D2
24F2	618F
27B	618C2
27C2	618C2
27C3	618C2
27C3	618D2
27D2	618C2
27D3	618C2
27E2	618D2
27E2	618F
52A	152A
52A	722A
55B	56B
55B2	56B
55C	656C2
55C2	656C2
55C3	656C2
55D2	656C2
55D3	656C2
56A	56B
56B	56B
56B2	56B
56C	656C2
56C2	656C2
56C3	656C2
57C2	656C2
59A	481A
60A	348B
60C2	656C2
60C3	656C2
60D2	656C2
60D3	656C2
62A	353A
62B	348B
67	67A
67A	67A
69	69A
69	722A
69	747A
69A	69A
79B	344B
79D2	570C2
79D2	570D2
89A	375A
91C3	448C3
103LA	747A
107	3107A
107A	3107A
107A+	3107A
124C2	570C2
125A	152A
126A	722A
126A+	722A
126B	152A
126B	722A
129	69A
129	747A
129A	69A
129A	747A
129A+	69A
129A+	747A
131A	570B
131A	8682A
131B	570B
131B	8682A
131B2	570B
131B2	8682A
131D3	570D2
131E2	570D2
132	132A
132	8682A
132A	132A
132A	3183A
132B	132A
132B	3183A
134A	132A
134A	570B
134A	3183A
134A	8682A
134B	134B
134B	134B
134B	570B
134B	8682A
134B1	134B
134B1	570B
134B1	8682A
134B2	134B
134B2	570B
134B2	8682A
134C1	448C3
134C1	570C2
134C2	448C3
134C2	570C2
134C3	570C2
1343	3107A
134D2	448C3
134D2	570C2
134D2	570D2
134D3	448C3
134D3	570C2
134D3	570D2
134E2	570D2
134F2	570D2
136	136A
136A	136A
137A	134B
137A	570B
137A	8682A
137B	134B
137B	570B
137B	8682A
137B1	134B
137B1	570B
137B1	8682A
137B2	134B
137B2	570B
137B2	8682A
137C2	448C3
137C2	570C2
137C3	448C3
137C3	570C2
137D2	448C3

Field symbols	Publi-cation symbol
137D2	570C2
137D2	570D2
137D3	448C3
137D3	570C2
137D3	570D2
137E2	570D2
137F2	570D2
140B	132A
140B	570B
140B	3183A
142A	722A
145B	56B
145B2	56B
145C	656C2
145C2	656C2
145C3	656C2
145D2	656C2
145D3	656C2
146B	56B
146C3	618C2
148A	56B
148A	663B
148B	56B
148B	663B
148B1	56B
148B1	663B
148B2	56B
148B2	663B
148C1	344B
148C2	344B
148C3	448C3
148C3	570C2
148D3	448C3
148D3	570C2
149	149A
149	663B
149A	149A
149A0	149A
149A0	3183A
149B	149A
149B	663B
149B	3183A
151	132A
151	570B
151	3183A
151	8682A
151A	132A
151A	570B
151A	3183A
152	152A
152	722A
152+	152A
152+	722A
152A	152A
152A	722A
152A+	152A
152A+	722A
153	244A
153A	244A
154A	154A
154B	154A
154B	171B
154B	375A
171B	171B
171B2	171B
171C2	656C2
171D2	656C2
184B	132A
184B	570B
184B	3183A
189A	375A
189B	375A
190A	570B
190A	8682A
190B	570B
190B	8682A
192A	554A
192B	554B
192C3	448C3
192D2	448C3
198A	198A
198B	679B
199B	199B
199B	679B
200A	570B
206	134B
206	136A
206A0	134B
206A0	136A
207A	208A
208	208A
208A	208A
219	219A
219	3183A
219A	219A
219B	219A
219B	3183A
219B2	219A
219B2	3183A
224C3	618C2
224D2	618C2
224D2	618D2
224D3	618C2
224D3	618D2
224E2	618D2
224E2	618F
224E3	618D2
224E3	618F
224F2	618F
224F3	618F
224G2	618F
226A	219A
226A	3183A
226B	219A
226B	3183A
228B3	554B
228C2	448C3
228C3	448C3
228D2	448C3
228D3	448C3
228E2	448C3
228F2	448C3
233B	233B
233C2	233B
234A	234A
234B	234B
236A	236A
236B	233B
242	242A
242A	242A
243B	134B
243B	344B
244A	244A
244E2	618D2
244E2	618F
245B	375A
256A	236A
256A	554A
265B	554B
284A	242A
291B	291B
291B2	291B

Field symbols	Publication symbol
291B3	291B
291C2	322C2
291C3	322C2
293A	375A
293B	375A
293B2	375A
293B3	554B
293C3	448C3
294B	375A
294B2	375A
294C2	448C3
294C3	448C3
295A	375A
295B	375A
295B2	375A
296A	219A
296A	3183A
322B	291B
322B2	291B
322C2	322C2
322C3	322C2
322C3	618C2
322D2	322C2
322D2	618C2
322D3	322C2
322D3	618C2
328A	134B
328A	136A
330	330A
330A	330A
330A+	330A
344A	344B
344A	663B
344B	344B
344B	663B
344B2	344B
344B2	663B
344C	344B
344C2	344B
345B1	291B
348B	348B
348B2	348B
348C2	322C2
348C3	322C2
350A	554A
350B	554B
350C2	448C3
350C3	448C3
353A	353A
353B	348B
353B2	348B
353C2	656C2
355B	554B
355B2	554B
355C	448C3
355C2	448C3
355C3	448C3
355D2	448C3
355D3	448C3
355E2	448C3
355F2	448C3
356A	554A
356B	554B
356B2	554B
357A	554A
357B	554B
357B2	554B
357B3	554B
357C2	448C3
357C3	448C3
375A	375A
375B	375A
376	198A
376A	198A
376B	663B
376B	679B
377A	199B
377B	199B
380A	330A
381A	344B
381A	663B
381B	199B
381C2	344B
382A	198A
383A	134B
383A	8682A
383B	134B
383B	8682A
384A	242A
384A	3183A
384B1	242A
384B1	344B
384B1	3183A
384B3	344B
385B	171B
385C2	322C2
395A	375A
441A	134B
441A	136A
448A	375A
448B	375A
448B	448C3
448B2	375A
448B2	448C3
448C	448C3
448C2	448C3
448C3	448C3
449B	134B
451	1107A
451	3107A
451	3183A
451A	1107A
451A	3107A
451A	3183A
457A	1107A
457A	3107A
457A	3183A
465A	69A
465A	747A
465B	291B
481A	481A
481B	56B
481B2	56B
491B	291B
496	496A
496A	496A
496B	291B
496B2	291B
496F	496A
497C2	322C2
533	533
536	802D
536A	809F
554A	554A
554B	554B
570B	570B
570C2	570C2
570D2	570D2
591A	171B
593B	375A
594A	152A
594A	722A
618A1	132A

Field symbols	Publication symbol
618A1	3183A
618C2	618C2
618D2	618D2
618F	618F
638A	67A
656C2	656C2
663B	663B
679B	679B
722A	722A
727B	570B
727B	8682A
727C2	570C2
747A	747A
802B	802D
802D	802D
802E	802D
809F	809F
864	864
865	865
866	802D
1107A	1107A

Field symbols	Publication symbol
1252A	134B
1252A	136A
2136B	291B
2993A	154A
2993A	375A
3107A	3107A
3183A	3183A
3405A	3405A
8682A	8682A
Bp	802D
Gp	864
Gp	865
Ia	533
Md	809F
Ml	802D
MW	MW
V154A	154A
V154A	375A
V154B	154A
V154B	171B
V234A	234A

Field symbols	Publication symbol
V236A	236A
V236A1	236A
V236B	233B
V376A	198A
W	W
W83	3405A
W83A	3405A
W83A0	3405A
W83AO	3405A
W83L	3405A
W107	1107A
W107A	1107A
W107L	1107A
W129A	747A
W330A	330A
W330A	747A
W451A	1107A
W451L	1107A
W3330A	330A
W3330A	747A

Prime or other Important Farmland 08/27/2004

(Only the soils considered prime or important farmland are listed. Urban or built-up areas of the soils listed are not considered prime or important farmland. If a soil is prime or important farmland only under certain conditions, the conditions are specified in parentheses after the soil name.)

Map symbol	Prime farmland map unit name
56B	Dana silt loam, 2 to 5 percent slopes (All areas are prime farmland)
67A	Harpster silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
69A	Milford silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
132A	Starks silt loam, 0 to 2 percent slopes (Prime farmland if drained)
134B	Camden silt loam, 2 to 5 percent slopes (All areas are prime farmland)
136A	Brooklyn silt loam, 0 to 2 percent slopes (Prime farmland if drained)
149A	Brenton silt loam, 0 to 2 percent slopes (All areas are prime farmland)
152A	Drummer silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
154A	Flanagan silt loam, 0 to 2 percent slopes (All areas are prime farmland)
171B	Catlin silt loam, 2 to 5 percent slopes (All areas are prime farmland
198A	Elburn silt loam, 0 to 2 percent slopes (All areas are prime farmland)
199B	Plano silt loam, 2 to 5 percent slopes (All areas are prime farmland)
208A	Sexton silt loam, 0 to 2 percent slopes (Prime farmland if drained)
219A	Millbrook silt loam, 0 to 2 percent slopes (Prime farmland if drained)
233B	Birkbeck silt loam, 2 to 5 percent slopes (All areas are prime farmland)
234A	Sunbury silt loam, 0 to 2 percent slopes (All areas are prime farmland)
234B	Sunbury silt loam, 2 to 5 percent slopes (All areas are prime farmland)
236A	Sabina silt loam, 0 to 2 percent slopes (Prime farmland if drained)
242A	Kendall silt loam, 0 to 2 percent slopes (Prime farmland if drained)
244A	Hartsburg silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
291B	Xenia silt loam, 2 to 5 percent slopes (All areas are prime farmland)
330A	Peotone silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
344B	Harvard silt loam, 2 to 5 percent slopes (All areas are prime farmland)
348B	Wingate silt loam, 2 to 5 percent slopes (All areas are prime farmland)
353A	Toronto silt loam, 0 to 2 percent slopes (Prime farmland if drained)
375A	Rutland silt loam, 0 to 2 percent slopes (All areas are prime farmland)
481A	Raub silt loam, 0 to 2 percent slopes (All areas are prime farmland)
496A	Fincastle silt loam, 0 to 2 percent slopes (Prime farmland if drained)
554B	Kernan silt loam, 2 to 5 percent slopes (All areas are prime farmland)
554A	Kernan silt loam, 0 to 2 percent slopes (Prime farmland if drained)
570B	Martinsville silt loam, 2 to 5 percent slopes (All areas are prime farmland)
663B	Clare silt loam, 2 to 5 percent slopes (All areas are prime farmland)
679B	Blackberry silt loam, 2 to 5 percent slopes (All areas are prime farmland)
722A	Drummer-Milford silty clay loams, 0 to 2 percent slopes (Prime farmland if drained)
747A	Milford silty clay loams, 0 to 2 percent slopes (Prime farmland if drained)
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if drained) and either protected from flooding or not frequently flooded during the growing season)
3183A	Shaffton silt loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
3405A	Zook silty clay, 0 to 2 percent slopes, frequently flooded (Prime farmland if drained) and either protected from flooding or not frequently flooded during the growing season)
8682A	Medway loam, 0 to 2 percent slopes, occasionally flooded (All areas are prime farmland)
	Important farmland map unit name
322C2	Russell silt loam, 5 to 10 percent slopes, eroded (Farmland of statewide importance)
448C3	Mona loam, 5 to 10 percent slopes, eroded (Farmland of statewide importance)
570C2	Martinsville loam, 5 to 10 percent slopes, eroded (Farmland of statewide importance)
570D2	Martinsville loam, 10 to 18 percent slopes, eroded (Farmland of statewide importance)
618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded (Farmland of statewide importance)
618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded (Farmland of statewide importance)
656C2	Octagon silt loam, 5 to 10 percent slopes, eroded (Farmland of statewide importance)

SOIL LEGEND ACCORDING TO ALPHABETICAL SEQUENCE

Map symbol	Mapping Unit Name
233B	Birkbeck silt loam, 2 to 5 percent slopes
679B	Blackberry silt loam, 2 to 5 percent slopes
149A	Brenton silt loam, 0 to 2 percent slopes
136A	Brooklyn silt loam, 0 to 2 percent slopes
134B	Camden silt loam, 2 to 5 percent slopes
171B	Catlin silt loam, 2 to 5 percent slopes
663B	Clare silt loam, 2 to 5 percent slopes
56B	Dana silt loam, 2 to 5 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
496A	Fincastle silt loam, 0 to 2 percent slopes
154A	Flanagan silt loam, 0 to 2 percent slopes
67A	Harpster silty clay loam, 0 to 2 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes
344B	Harvard silt loam, 2 to 5 percent slopes
242A	Kendall silt loam, 0 to 2 percent slopes
554A	Kernan silt loam, 0 to 2 percent slopes
554B	Kernan silt loam, 2 to 5 percent slopes
570B	Martinsville silt loam, 2 to 5 percent slopes
570C2	Martinsville loam, 5 to 10 percent slopes, eroded
570D2	Martinsville loam, 10 to 18 percent slopes, eroded
8682A	Medway loam, 0 to 2 percent slopes, occasionally flooded
69A	Milford silty clay loam, 0 to 2 percent slopes
747A	Milford silty clay loams, 0 to 2 percent slopes
219A	Millbrook silt loam, 0 to 2 percent slopes
MW	Miscellaneous water
448C3	Mona loam, 5 to 10 percent slopes, eroded
656C2	Octagon silt loam, 5 to 10 percent slopes, eroded
802D	Orthents loamy, rolling
809F	Orthents loamy-skeletal, acid, steep
330A	Peotone silty clay loam, 0 to 2 percent slopes
865	Pits, gravel
864	Pits, quarries
199B	Plano silt loam, 2 to 5 percent slopes
481A	Raub silt loam, 0 to 2 percent slopes
322C2	Russell silt loam, 5 to 10 percent slopes, eroded
375A	Rutland silt loam, 0 to 2 percent slopes
236A	Sabina silt loam, 0 to 2 percent slopes
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
1107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded, undrained
618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded
618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded
618F	Senachwine silt loam, 18 to 35 percent slopes, eroded
208A	Sexton silt loam, 0 to 2 percent slopes
3183A	Shaffton silt loam, 0 to 2 percent slopes, frequently flooded
132A	Starks silt loam, 0 to 2 percent slopes
234A	Sunbury silt loam, 0 to 2 percent slopes
234B	Sunbury silt loam, 2 to 5 percent slopes
353A	Toronto silt loam, 0 to 2 percent slopes
533	Urban land
W	Water
348B	Wingate silt loam, 2 to 5 percent slopes
291B	Xenia silt loam, 2 to 5 percent slopes
3405A	Zook silty clay, 0 to 2 percent slopes, frequently flooded

CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS FOR DOUGLAS COUNTY, ILLINOIS A SUBSET OF MLRA 108A

1. Laboratory Data from the NSSL NONE

2. Laboratory Data from the University of Illinois Pedology Laboratory for Douglas, Illinois*

Sampled As	Pedon Number	Approved Series Name
Milford	64IL041001	Milford
Drummer	64IL041002	Drummer
Martinton	65IL041001	Martinton
Peotone	65IL041002	Peotone
Starks	67IL041001	Starks
Sexton	67IL041002	Sexton
Armiesburg	84IL041001	Allison
Ross	84IL041002	Ross
Martinsville	84IL041003	Martinsville
St. Charles	84IL041004	St. Charles
Drummer	84IL041005	Drummer
Camden	84IL041006	Camden

3. Laboratory Data from the Illinois State Geological Survey NONE

4. Engineering Test Data from Illinois Department of Transportation, Springfield, Illinois*

Sampled As	Pedon Number	Approved Series Name
Milford	64IL041001	Milford

* All pedons listed were identified in the previous" Classification and Correlation of the Soils of Douglas County"

Notes to Accompany the Classification and Correlation of the Soils of Douglas County, Illinois

Prepared by Ronald D. Collman

The series listed in the classification table at the end of this document are based on the Keys to Soil Taxonomy, Ninth Edition, 2003. The exception to this are the Blackberry, Clare, and Dana series which are classified as Oxyaquic Argiudolls based on the Keys to Soil Taxonomy, Eighth Edition, 1998. They could classify as Aquic Argiudolls under the Ninth Edition. Water table studies need to be conducted to determine if these soils do in fact have Aquic conditions within a depth of 30 inches. Acres noted below are based on the 1967 correlation.

ALVIN SERIES-(dropped) Previously correlated for Soil report #89. 131B; 66 acres. Soils previously correlated as Alvin are correlated to Martinsville on uplands and Medway on floodplains.

BIRKBECK SERIES-(added) This series replaces those soils that were previously correlated as 236B Sabina. Birkbeck series also includes soils previously mapped as Birkbeck. The TUD is OSD 80IL115035. DMU#:153465. Slopes are adjusted to the MLRA 108A legend.

BLACKBERRY SERIES-(added) - This series replaces those soils that were previously mapped as Leonore and correlated to Proctor for Soil Report #89 and those soils previously correlated as Elburn on B slope. The TUD is 77IL-019-015; previously 77IL-10-15; DMU#:151949. Slopes are adjusted to the MLRA 108A legend.

BORROW PITS (dropped)–Previously correlated for Soil Report #89. Bp or BP; 23 acres. These soils are correlated to Orthents, loamy, undulating 802D.

BRENTON SERIES- Previously correlated for Soil Report #89. 149A; 4,678 acres correlated. The TUD is the OSD type location in McLean County OSD 01IL-113-003. DMU# is 410848. A few units of 149A in floodplains are correlated to 3183A Shaffton. Add slope to symbol and muname.

Joins--Edgar County joins with DMU#:-140761.

The Classification and Correlation of 1967 states that approximately 269 acres of 149B1 on field sheets was included with the 149 mapunit. Those soils previously mapped as Brenton on B slope are included with Clare series.

BROOKLYN SERIES- Previously correlated for Soil Report #89. 136;845 acres. Edits to the OSD were proposed with this correlation. The TUD is OSD typical pedon in Douglas County - 98IL041004. DMU# is 152333. Add slope to symbol and muname.

Joins—Brooklyn in Douglas joins Coles.

CAMDEN SERIES- Previously correlated for Soil Report #89. 134B map unit is retained. Map units 134A, 134C2, 134D2, and 134D3 are dropped with this correlation. Slopes are adjusted to the MLRA 108A legend.

134B– 1,254 acres. Pedon#: OSD 98IL019008. DMU#:151633. All 134B in uplands is correlated to 570B Martinsville except for the join to Champaign and Coles due to family classification change since original mapping completion. All St. Charles 243B soils have outwash higher in the profile than is defined for the St. Charles series and are correlated to Camden 134B. A few units of 134B are correlated to 8682A in floodplains.

Joins—134B joins Champaign and Coles.

134A-- 278 acres. Correlated to 132A Starks or 570B Martinsville in uplands. Correlated to 3183A Shaffton or 8682A Medway in Floodplains.

134C2– 507 acres. Correlated to 570C2 Martinsville in uplands or 448C3 Mona in lacustrine areas.
134D2– 442 acres. Correlated to 570C2 or 570D2 in uplands or 448C3 Mona in lacustrine areas.
134D3–280 acres. Drop 134D3. Correlated to 570C2 or 570D2 in uplands and 448C3 Mona in lacustrine areas.

CATLIN SERIES- Previously correlated for Soil Report #89. 171B; 445 acres. An additional 3,682 acres that were previously correlated as 154B will be correlated as 171B if they do not occur near 154A units. The TUD is pedon# 86IL113053. DMU#: 407839. Slopes are adjusted to the MLRA 108A legend.

Joins—Douglas 171B joins Champaign DMU 151644.

CLARE SERIES-(added) - 663B. This series replaces those soils that were previously mapped as Proctor 148B fitting an Oxyaquic subgroup classification. An additional 269 acres identified as Brenton 149B1 on original maps is included with this correlation. The TUD is pedon # 90IL113080; DMU #408764. Slopes are adjusted to the MLRA 108A legend.

Part of the approximately 449 acres of soils previously correlated as Harvard will be correlated to Clare for the join to Champaign and in areas where it is eroded Mollisols.

Joins—Champaign uses DMU #151932 and Pedon #77IL-019-027.

DANA SERIES- Previously correlated for Soil Report #89. 56B; 2,098 acres. The TUD is OSD Pedon 98IL045002 and the DMU# 153456. Previously correlated 481B Raub and 148B Proctor soils in till areas are also correlated to Dana.

Joins—Douglas 56B joins Edgar 56B and Coles 56B2. Edgar joins with DMU #140753. Coles County joins Douglas with 56B2 and will change to 56B at join.

DRUMMER SERIES- Previously correlated for Soil Report #89. 152; 110,203 acres and 152+; 393 acres. The TUD is OSD77IL-019-034; previously 77IL-10-34. DMU #151641. Drummer 152A will be mapped for joins with Champaign and Edgar Counties. Additional Drummer units are mapped in known outwash areas.

722A - Drummer-Milford silty clay loams, 0 to 2 percent slopes. This map unit is added with this correlation. The complex will cover most Drummer units mapped outside the glacial lake boundary and will include all Drummer units in lacustrine areas within the glacial lake boundary. DMU# for Drummer-Milford is 443051. It consists of the Drummer OSD Pedon 77 IL019034 and a Milford Pedon from Moultrie County Pedon# 02IL139002. The Milford soils in this complex are outside the range of characteristics for the Milford OSD in that it has a silt loam C which is not allowed in Milford series. Drummer-Milford within the lake boundary has a dense lacustrine layer between 60 and 80 inches. Slope is added to the mapunit name.

Joins—Douglas Drummer joins 152A in Champaign and Edgar updates. The Edgar DMU is 140762.

ELBURN SERIES - Previously correlated for Soil Report #89. 198A; 11,989 acres will be kept. TUD is Pedon# OSD 85IL021002. The DMU# is 399244.

Joins—Douglas 198A joins Champaign, Edgar, and Piatt. Champaign joins with DMU 153471. Edgar joins with DMU140769.

198B -- 561 acres, Correlated to 679B Blackberry.

ESCARPMENTS(dropped) - Previously correlated for Soil Report #89. Es; 15 acres. These soils will become Short Steep Slope (SLP) spot symbols or included with steep nearby soils.

FINCASTLE SERIES– Previously correlated for Soil Report #89. 496A; 1,257 acres will be kept. The TUD Pedon# is 85IL183013. The DMU# is 153386. These soils are taxadjunct to the Fincastle series. They are slightly drier than is defined for the series. The taxadjunct classifies as Fine-silty, mixed, superactive, mesic Aquic Hapludalfs.

496B -- 1,158 acres: Correlated to Xenia 291B.

FLANAGAN SERIES- Previously correlated for Soil Report #89. 154A; 55,704 acres will be kept. Flanagan soils within the glacial lake boundary are correlated to Rutland 375A to better fit the morphology. The TUD is OSD Pedon# 76IL-019-022; previously 76IL-10-22. DMU# 151643.

Joins—Douglas Flanagan joins Champaign, Edgar, Coles, Piatt, and Moultrie Counties. Champaign, McLean, and Moultrie have used the same DMU. Edgar joins with DMU# 140764.

154B -- 3,940 acres will be dropped. These soils within the glacial lake boundary originally mapped Andres, Symerton, Martinton will be correlated to Rutland 375A to better fit the morphology. These soils outside the glacial lake boundary and not adjacent to 154A units will be correlated to 171B Catlin. Units adjacent to 154A units will be combined with 154A.

GRAVEL PITS(dropped)- Previously correlated for Soil Report #89. Gp or Gravel Pit or spot symbol; 21 acres. See Pits, Gravel (865) and Pits, Quarry, (864).

HARPSTER SERIES- Previously correlated for Soil Report #89. 67; 659 acres. The TUD is OSD 67IL053001. DMU# is 142575. Slope is added to the mapunit name.

Joins—Douglas Harpster joins Edgar County. Edgar joins with DMU# 140750.

HARTSBURG SERIES(added) - 244A Hartsburg is added for those soils that were previously mapped 153 Pella. A review of these soils in MLRA 108A indicates that stratified silty materials with thin strata of sandier textures are below the silty overburden. The TUD OSD 96IL107010, DMU# 153413.

Joins – Douglas Hartsburg joins Coles, Piatt, and Moultrie Counties.

HARVARD SERIES– Previously correlated for Soil Report #89. 344B; 295 acres kept and 344B; A small acreage of 243B St. Charles will be correlated to 344B. The TUD is Pedon# 89IL045014, DMU#: 140781.

A small acreage of 344B Harvard will be correlated to 663B Clare for the join to Champaign and in areas where it is eroded Mollisols.

HOUGHTON SERIES(dropped) - This series was mapped on original maps, but combined with nearby flat wet soils, typically Drummer 152. A spot symbol for each 3 acres of muck was added to the published maps to indicate Houghton Muck. These units are near Hindsboro. These areas were investigated and found to be most like wet Milford. These areas will be mapped 747A Milford silty clay loams complex.

INDUSTRIAL AREAS(dropped)– Previously correlated for Soil Report #89. Ia or Industrial Area; 596 acres. This map unit is correlated to 533 Urban Land.

KENDALL SERIES- Previously correlated for Soil Report #89. 242; 1,412 acres. The TUD is OSD 98IL041002. The DMU# is 153455 used in Champaign. Slope is added to the MU name and number.

Joins – Edgar County. Edgar had a different pedon and the joining DMU is 140774.

KERNAN SERIES– Previously correlated for Soil Report #89. 554A; 738 acres and 554B; 576 acres. The TUD will be the typical pedon on B slope from LaSalle County. DMU# 459200. The A-slope unit DMU# is 459198.

These soils formed in silty or loamy sediments over lacustrine materials. The lacustrine part includes a layer that is dense. These soils do not have vertic properties and classify as Fine, smectitic, mesic Aeric Epiaqualfs. A proposal has been made to change the classification of the series. The OSD will be routed for comments.

LANDFILL–One area near Villa Grove is a closed landfill. This area was previously mapped as soil. It is correlated to 802D; Orthents, Loamy.

LAWSON SERIES(dropped)- Previously correlated for Soil Report #89. 451; 766 acres. Lawson soils are correlated to 3183A Shaffton. Areas identified as W451 on old maps are correlated to 1107A Sawmill.

MADE LAND(dropped)- Previously correlated for Soil Report #89. MI or Made Land or multiple tilde symbols (~~~~); 62 acres. The soils in this delineation are combined with those soils delineated as Borrow Pits and are correlated to Orthents, loamy, 2 to 20 percent slopes-802D.

MARTINSVILLE SERIES(added) - This series replaces those areas mapped as Camden, Alvin, and Ridgeville. The original mapping concept of Camden in Douglas County was that it was fine-loamy.

570B– These units replace those units previously correlated as Camden 134B, Alvin 131B, and Ridgeville 151 in upland areas. Pedon number is 99IL019001. DMU# is 151678.

570C2–These units were previously correlated as 134C2-formerly mapped as Camden and Ellison and 134D2-formerly mapped Proctor in outwash areas. This DMU is a copy of the B unit DMU that was created for Champaign update and is adjusted for slope and erosion. The DMU# is 151679.

570D2--These units were previously correlated as 134D2 and 134D3 both having 7 to 12 percent slopes. These units were originally mapped on slopes from 7 to 25 percent. An evaluation of the digital maps and topography indicates that some of the 496 acres of these soils will better fit 570C2. This DMU is a copy of the B unit DMU that was created for Champaign update and is adjusted for slope and erosion. DMU# is 151680.

Joins–570C2 and 570D2 are needed for joins to Champaign and Coles Counties. Douglas will join Champaign with DMU 151679 (570C2) and DMU 151680 (570D2). Joinns to Coles will be resolved

MEDWAY SERIES(added) - This series replace those soils originally correlated as Alvin and Camden soils in flood plains. (Some Camden 134A units will be correlated to Shaffton.) The TUD is Pedon# 87IL173007. DMU# is 469849. The TUD is a Rarely flooded map unit from Shelby. It represents an occasionally flooded unit in Douglas.

MIAMI SERIES(dropped) - Previously correlated for Soil Report #89. 27C2; 428 acres: 27C3; 452 acres: 27D2; 494 acres: 27D3; 466 acres. Map units 27C2, 27C3, 27D2, and 27D3 are correlated to Senachwine and Strawn series.

MINE DUMP(dropped)- Previously correlated for Soil Report #89. Md or Mine dump; 25 acres. The mine dump area near Murdock is correlated to 809F Orthents, loamy-skeletal, acid, steep.

MILFORD SERIES–Previously correlated for Soil Report #89. 69; 28,880 acres. Milford will be kept for joining Edgar County and for areas within the glacial lake boundary that do not have pothole areas. Pothole areas will be correlated to 747A Milford silty clay loams undifferentiated group. Milford series will also be part of the 722A Drummer-Milford silty clay loams complex. The TUD for 69A Milford is Pedon# 02IL139002. DMU# is 470931. This component includes a silt loam C horizon which is out side the range of Milford. Slope is added to the mapunit name.

Joins–Douglas 69 joins Edgar. The TUD and DMU are different.

MILFORD silty clay loams(added) 747A - This map unit includes two phases of the Milford soils. One component includes a silt loam C horizon which is outside the range of Milford. The other component is a very poorly drained Milford that represents the pothole areas within the glacial lakeplain in Douglas County. The TUDs are Moultrie 02IL139002 and Douglas 64IL041001. The DMU number is 459210.

MILLBROOK SERIES- Previously correlated for Soil Report #89. 219; 1,570 acres. The TUD is OSD 77IL-019-021. The DMU# is 151648. A few units of 219A in floodplains are correlated to 3183A Shaffton. Slope is added to the mapunit name.

Joins–Douglas 219A Joins Champaign and Coles.

MISCELLANEOUS WATER(added) - This map unit delineates water bodies that are not considered for recreational purposes and includes sewage lagoons and water treatment facilities. DMU# is 155361.

MONA SERIES(added) - 448C3 Mona replaces those soils previously correlated as Camden on B slopes adjacent to 554 Kernan units and Camden on C and D slopes within the glacial lakeplain away from outwash areas. Also included are areas previously correlated as Nappanee. Mona soils in this

survey area are taxadjunct to the series because erosion has removed most of the dark surface layer. The taxadjunct classifies as Fine-loamy, mixed, superactive mesic Oxyaquic Hapludalfs. The TUD is Pedon# 63IL041406. DMU# is 459184.

MONTMORENCI(dropped) - Previously correlated for Soil Report #89. 57C2; 906 acres. Most soils previously correlated as Montmorenci are now correlated to Octagon.

OCTAGON(added) - This series replaces those soils previously correlated as Montmorenci 57C2. These soils were originally mapped as eroded Mollisols; Sidell, La Rose, Dana, Saybrook, and Catlin soils. It also replaces those soils originally mapped Saybrook but were correlated to Miami 27C3 in Soil Report #89. Pedon# is not assigned. DMU# is 458931.

ORTHENTS(added) 802D -- Orthents, loamy, 2 to 20 percent slopes. This map unit is setup for those soils that were mapped as Made Land and labeled with multiple tilde symbols (~~~~), MI, or Made Land. This map unit also includes those Borrow Pit delineations labeled with B.P., B. PIT, or BORROW PIT. The DMU# is 443076.

809F -- Orthents, loamy-skeletal, acid, steep. This unit is made up of coal mine spoils and was previously delineated as Mine Dump. This unit is now larger than it was in Soil Report #89. The DMU# is 140798. This unit in Douglas County may not be skeletal.

PELLA SERIES(dropped) Previously correlated for Soil Report #89 and now correlated to Hartsburg 244A.

PEOTONE SERIES-Previously correlated for Soil Report #89. 330; 683 acres. The TUD is 83IL053021; DMU# is 154675. Slope is added to the mapunit name.

Joins–Douglas 330 joins Edgar and Piatt. Edgar DMU is 140778.

PITS, GRAVEL(added) 865--This unit replaces those areas delineated and labeled with Gravel Pit, G.P, or the symbol of crossed shovel and pick except the area near Tuscola that is a Quarry. The DMU is 153492.

PITS, QUARRIES(added) 864--This unit replaces the quarry delineation near Tuscola. DMU# is 155280.

PLANO SERIES- Previously correlated for Soil Report #89. 199B; 342 acres. Some polygons correlated to Blackberry, based on position and adjacent soils. Pedon number is 86IL011011. This pedon has 21 inch Mollic epipedon but is not considered to be pachic in much of the survey area. DMU# is 156397.

PROCTOR SERIES(dropped)- Previously correlated for Soil Report #89. 148B; 831 acres. Proctor soils will go to Clare 663B mapunit.

RAUB SERIES-Previously correlated for Soil Report #89. 481A; 3,309 acres. The TUD is 76IL019053; previously 76IL-10-53. DMU# is 151832.

Mapunit 481B is dropped with this correlation. Approximately 1,830 acres correlated to Dana 56B.

Joins–Douglas 481A joins Edgar and Coles Counties. Edgar will join with DMU# 140785.

RIDGEVILLE SERIES(dropped)- Previously correlated for Soil Report #89. 151; 98 acres. These soils on uplands are correlated to Martinsville 570B. These soils on floodplains are correlated to Shaffton.

RUSSELL SERIES- Previously correlated for Soil Report #89. 322C2; 1,130 acres: 322D2; 132 acres: 322C3; 173 acres are correlated to 322C2. The TUD is 88IL-045-041. The DMU# is 153457. Slopes are adjusted to the MLRA 108A legend.

Joins–Douglas 322C2 joins Champaign and Coles Counties.

RUTLAND SERIES- Previously correlated for Soil Report #89. 375A; 1,433 acres and 375A; 415 acres. 2,462 acres of Martinton and 2,039 acres of Andres that were originally mapped within the dense lacustrine area and correlated to Flanagan 154A for the 1971 publication are correlated to Rutland 375A.

375B-- These soils are now correlated to Rutland 375A to better fit the morphology. These soils formed in silty or loamy sediments over lacustrine materials. Many areas of Rutland soils are wetter in the upper part than is defined for the series. The lacustrine substratum includes a layer that is dense. The range in depth to the dense lacustrine material is 40 to 80 inches. The TUD pedon for 375A is the Douglas pedon 00IL041016. DMU# 470599.

SABINA SERIES- Previously correlated for Soil Report #89. 236A; 3,540 acres are kept. The TUD is Pedon# OSD 98IL041001 and DMU# is 153454.

Joins–Douglas Sabina 236A joins Champaign and Piatt Counties.

236B -- 499 acres. Correlated to Birkbeck 233B.

SAWMILL SERIES- Previously correlated for Soil Report #89. 107; 1,073 acres and W107; 5,788 acres.

1107A–The MU number is changed from W107 and slope and flooding frequency are added to the map unit name. The representative Pedon# is 85IL195338. The DMU# is 154673. Soils previously mapped as W451 are correlated to 1107A with this update. Some mapunits include mollic surfaces up to 55 inches thick (Zook) and some areas are fine-loamy.

3107A–The MU number is changed from 107 to 3107A; slope and flooding frequency are added to the mapunit name. The TUD pedon for 3107A is OSD99IL167008 and the DMU# is 153474. Some mapunits include mollic surfaces up to 55 inches thick (Zook) and some areas are fine-loamy.

Joins–Douglas 3107A Sawmill joins Champaign and Coles Counties.

SENACHWINE SERIES(added) - Map units 618C2, 618D2, and 618F are added with this correlation and replace those soils previously correlated as Miami or Strawn soils. Slopes are adjusted to the MLRA 108A legend. The TUD is Pedon#: OSD 82IL011187.

618C2 - Includes Miami soils in map units 27C2, 7C3, 27D2, and 27D3 with one exception. 27D3 units originally mapped 322E2 will be correlated to Senachwine 618D2. The DMU# is 153459.

618D2 - Includes soils previously correlated as Strawn (224D2) or previously mapped as 322E2. The DMU# for this map unit is 153460.

618F - Includes soils previously correlated to Strawn (224F2). The DMU# for this map unit is 153461.

Joins–Douglas 27D2 (correlated to 618C2) joins Coles 27D2. Douglas 618F joins Coles 27E and 27F and Piatt 27F.

SEXTON SERIES– Previously correlated for Soil Report #89. 208; 588 acres. 208A–Sexton TUD Pedon# 88IL045060. DMU# is 140771. 85 acres of a similar soil called Ward that is over loam till was previously correlated as Sexton in the 1971 publication. This correlation was kept. These soils are mapped in the same areas as Sexton soils. Slope will be added to the MU number and MU name.

Joins–Douglas Sexton 208A joins Edgar. Douglas will use the same pedon and DMU.

SHAFFTON SERIES(added) 3183A - replaces those soils previously mapped as Ridgeville, Camden 134A, Lawson 451, Starks, Brenton, and Millbrook in floodplains. The Pedon# is 03IL041400 and the DMU# is 469850.

ST. CHARLES SERIES(dropped)- Previously correlated for Soil Report #89. 243B; 620 acres. These soils have outwash higher in the profile than is defined for the St. Charles series and are correlated to Camden 134B.

STARKS SERIES- Previously correlated for Soil Report #89. 132A; 2,309 acres. The TUD Pedon# is 88IL045073 and the DMU# is 140755. Descriptions suggest they are Fine-silty, but include Fine-loamy pedons. A few units of Starks in the floodplain are correlated to 3183A Shaffton.

Joins–Douglas Starks joins Edgar county. Douglas will use the TUD from Edgar.

STRAWN(dropped) - Previously correlated for Soil Report #89. 224E2; 375 acres and 224F2; 1,164 acres. See Senachwine.

SUNBURY SERIES- Previously correlated for Soil Report #89. 234A; 1,164 acres and 234B; 2,840 acres. The TUD is OSD 98IL041003. The DMU# is 153453. 234B–There are no descriptions of Sunbury on B slope in the archive file. The DMU# is 459225 which is copied from 234A and adjusted for slope.

Joins–Sunbury 234A joins Piatt.

TORONTO SERIES- Previously correlated for Soil Report #89. 353A; 677 acres and 353B; 471 acres. The TUD Pedon# is 88IL045071. DMU# 140784. The 353B mapunit is dropped with this correlation. 353B now correlated to 348B Wingate.

URBAN LAND(added)– Previously delineated and identified on maps as INDUSTRIAL AREAS. The MUD and DMU will be the same one used in McLean. DMU# is 151935.

WABASH SERIES(dropped)- Previously correlated for Soil Report #89. W83; 520 acres. These soils are correlated to Zook 3405A.

WATER- Previously correlated for Soil Report #89. W or Water. Approximately 38 acres correlated. DMU# is 155171.

WINGATE SERIES(added) -This series replaces those soils previously correlated as 353B Toronto soils which are better drained and better fit the Wingate series. In addition, soils previously correlated as 56B Dana but originally mapped as Wingate are now included with 348B Wingate mapunit. The TUD is Pedon# 87IL045034. The DMU# is 140783.

XENIA SERIES- Previously correlated for Soil Report #89. 291B; 1,718 acres. With this correlation, approximately 1,158 acres of Fincastle (496B) soils are included with the 291B mapunit. The more sloping Fincastle mapunits better fit the drainage of Xenia. The TUD is 76IL-019-042. The DMU# is 151661.

Joins–Douglas 291B joins Champaign and Coles Counties.

ZOOK SERIES(added) - This series replaces those soils previously correlated as Wabash in Soil Report# 89. 3405A–Zook silty clay loam, frequently flooded, replaces those areas previously mapped as W83–Wabash, wet. The Douglas County typical pedon has a Mollic epipedon which is slightly thinner than the range for Zook. The original typical described silty clay in the B. The redescription by SEW of a pedon near the Douglas typical pedon site had clay loam in the B. A pedon number is assigned to the original typical pedon description. Pedon# 64IL041446. Their sampled pedon number is 00IL041002. The TUD is from Warren County update. DMU# is 152445.

(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
Birkbeck	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Blackberry	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Brenton	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Brooklyn	Fine, smectitic, mesic Mollic Albaqualfs
Camden	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Catlin	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Clare	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Dana	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Drummer	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Elburn	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
*Fincastle	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Flanagan	Fine, smectitic, mesic Aquic Argiudolls
Harpster	Fine-silty, mixed, superactive, mesic Typic Calciaquolls
Hartsburg	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Harvard	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Kendall	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
*Kernan	Fine, smectitic, mesic Aeric Epiaqualfs
Martinsville	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Medway	Fine-loamy, mixed, superactive, mesic Fluvaquentic Hapludolls
Milford	Fine, mixed, superactive, mesic Typic Endoaquolls
Millbrook	Fine-silty, mixed, superactive, mesic Udollic Endoaqualfs
*Mona	Fine-loamy, mixed, superactive, mesic Oxyaquic Hapludalfs
Octagon	Fine-loamy, mixed, active, mesic Mollic Oxyaquic Hapludalfs
Orthents, loamy	Loamy, mesic Udorthents
Orthents, loamy-skeletal	Loamy-skeletal, mixed, acid, mesic Typic Udorthents
Peotone	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
Plano	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Raub	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Russell	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Rutland	Fine, smectitic, mesic Aquic Argiudolls
Sabina	Fine, smectitic, mesic Aeric Epiaqualfs
Sawmill	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Senachwine	Fine-loamy, mixed, active, mesic Typic Hapludalfs
*Sexton	Fine, smectitic, mesic Typic Epiaqualfs
Shaffton	Fine-loamy, mixed, superactive, mesic Fluvaquentic Hapludolls
Starks	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Sunbury	Fine, smectitic, mesic Aquollic Hapludalfs
Toronto	Fine-silty, mixed, superactive, mesic Udollic Epiaqualfs
Wingate	Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs
Xenia	Fine-silty, mixed, superactive, mesic Aquic 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 November 2002.

b. Douglas County joins the following MLRA 108A subsets:
Champaign County to the north (SSURGO update; published on Soil View, Sep 2001)
Coles County to the south (published Apr 1993; update agreement signed)
Edgar County to the east (SSURGO update; published on Soil View, Feb 2001)
Moultrie County to the southwest (SSURGO update; in publication pipeline)
Piatt County to the northwest (published Dec 1991; update agreement signed)

An exact join exists with the SSURGO certified counties. An acceptable join exists with other counties and will become exact when they are updated to the MLRA legend.

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

d. The location of all typical pedons has been checked for accuracy, and that they occur in delineations using those names. Typical pedons are those that represent the taxonomic units in MLRA 108A. Not all typical pedons are located in Douglas County.

e. All typical pedons are classified according to Keys of Soil Taxonomy, Eighth edition, 1998.

f. The digital soil maps, once completed, will be reviewed for accuracy and consistency.

Approval Signature and Date:

Travis Neely 9/8/04

Travis Neely — Date
MLRA Region 11 Team Leader
USDA, NRCS
Indianapolis, IN 46278

William J. Gradle 9-14-2004

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