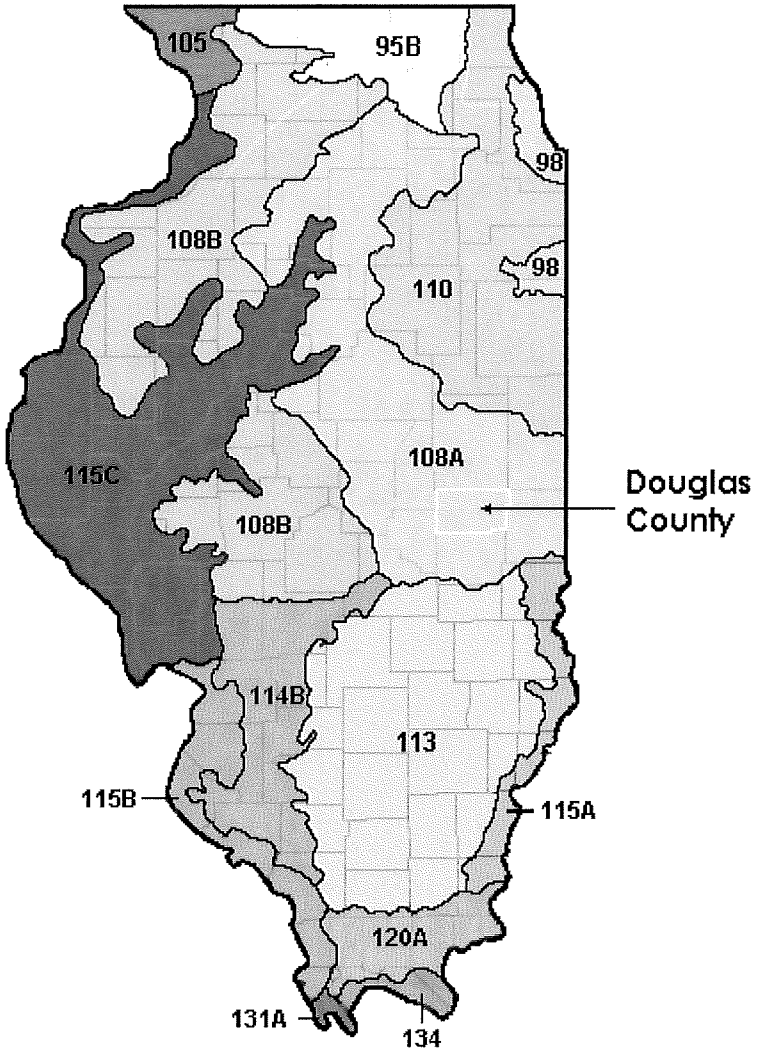
United States
Department of
Agriculture

**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

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 (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
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
481A	Raub silt loam, 0 to 2 percent slopes	481A	Raub silt loam, 0 to 2 percent slopes
481	RAUB SILT LOAM, 0 TO 2 PERCENT SLOPES		
59A			
496A	Fincastle silt loam, 0 to 2 percent slopes	496A	Fincastle silt loam, 0 to 2 percent slopes
496A	FINCASTLE SILT LOAM, 0 TO 2 PERCENT SLOPES		
496			
496F			
533	Urban land	533	Urban land
Ia	INDUSTRIAL AREAS		
554A	Kernan silt loam, 0 to 2 percent slopes	554A	Kernan silt loam, 0 to 2 percent slopes
554A	KERNAN SILT LOAM, 0 TO 2 PERCENT SLOPES		
192A			
256A			
350A			
356A			
357A			
554B	Kernan silt loam, 2 to 5 percent slopes	554B	Kernan silt loam, 2 to 5 percent slopes
554B	KERNAN SILT LOAM, 2 TO 4 PERCENT SLOPES		
192B			
228B3			
265B			
293B3			
350B			
355B			
355B2			
356B			
356B2			
357B			
357B2			
357B3			
570B	Martinsville silt loam, 2 to 5 percent slopes	570B	Martinsville silt loam, 2 to 5 percent slopes
131B	ALVIN FINE SANDY LOAM, 2 TO 4 PERCENT SLOPES		
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			
140B			
151A			
184B			
190A			
190B			
200A			
727B			

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

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.

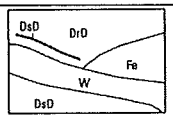
Join statement: Douglas County, which was published in 1971, joins 5 modern soil surveys. These are Champaign, Edgar, Coles, Moultrie, and Piatt Counties. Champaign County to the north was published in 1982 then updated and SSURGO certified with Soil View available in 2002. Edgar County to the east was 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.

Field symbols	Publication 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
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

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

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.

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.

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.

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.

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

William J. Gradle — Date
State Conservationist
USDA, NRCS
Champaign, IL 61820