

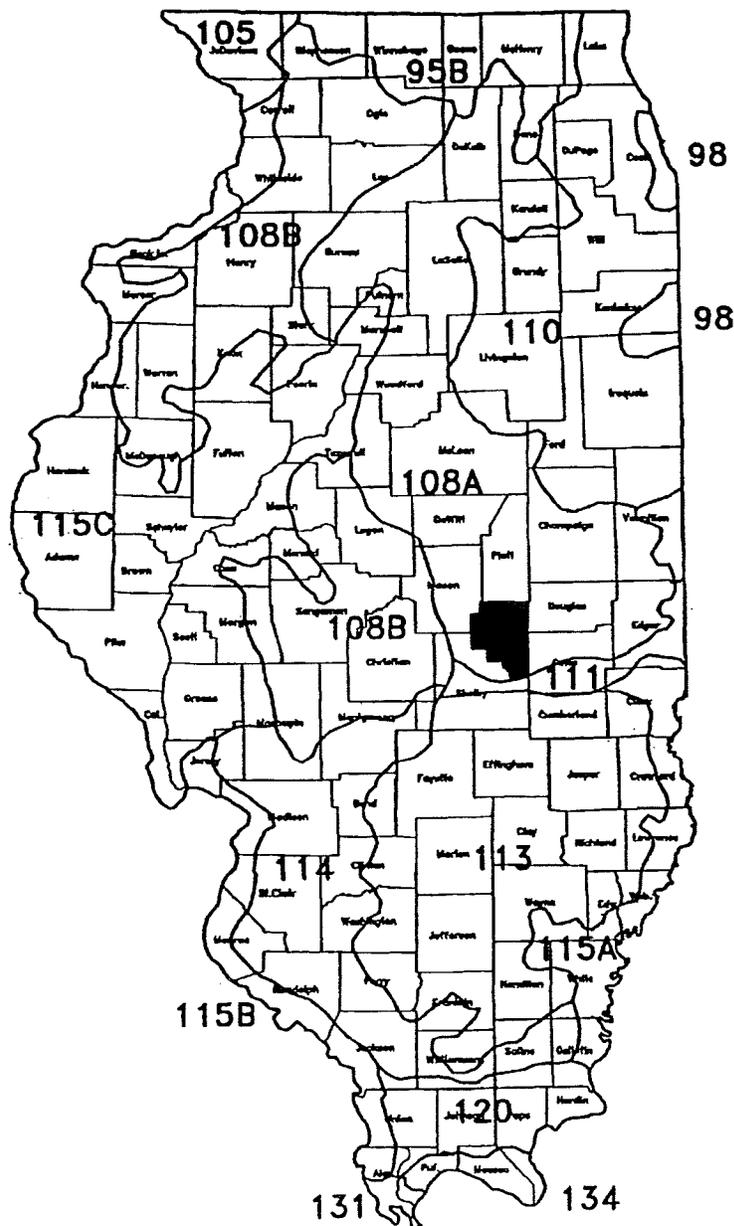
United States
Department of
Agriculture

Natural Resources
Conservation Service

East Central Glaciated
Regional MLRA
Soil Survey Office
Indianapolis, IN

Classification and Correlation of Soils in Moultrie County, Illinois

A Subset of MLRA 108A
(Amended & Revised)



April, 2003

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

**SECOND AMENDMENT
TO THE
CLASSIFICATION AND CORRELATION
OF THE SOILS OF
MOULTRIE COUNTY, ILLINOIS**

A SUBSET OF MLRA 108A

APRIL 2003

This correlation amendment was prepared by Asghar A. Chowdhery, Soil Data Quality Specialist (SDQS) MLRA Region 11 team, Indianapolis, IN, Christopher C. Cochran, MLRA Project Leader, Charleston, IL, and Ron Collman, MLRA Soil Scientist, Charleston, IL. It was prepared as part of the update of the Soil Survey of Moultrie County, a subset of MLRA 108A. Since the correlation amendment is so extensive, a complete re-correlation was completed to reduce confusion. This amendment replaces in its entirety and supercedes the "Classification and Correlation Document of April 1999 and Amendment No. 1 of June 2000. It is based on transect data, pedon descriptions, laboratory data, field soil maps, join statements, and descriptive legend. Sources used in the literature review include "Classification and Correlation of the Soils of Moultrie County, Illinois" - February 1993, as amended in May 1993, and the published "Soil Survey of Moultrie County, Illinois" - 1998.

HEADNOTE FOR DETAILED SOIL SURVEY LEGEND

This update of Moultrie County, Illinois is an update subset of the Soil Survey of Major Land Resource Area (MLRA) 108A. Map units names, the map unit symbols, and special and conventional symbols are consistent between subsets that are being updated. Map unit symbols consist of a combination of numbers and letters. The initial numbers represent the kind of soil. A capital letter following those numbers indicates the class of slope. A final number of 2 following the slope letter indicate 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 miscellaneous units.

Soil Correlation Of
Moultrie County, Illinois

Field symbols	Field map unit name	Publication symbol	Approved map unit name
56A 171A 348A	Dana silt loam, 0 to 2 percent slopes Catlin silt loam Wingate silt loam, 0 to 2 percent slopes	56A	Dana silt loam, 0 to 2 percent slopes
56B 56B2 171B 348B 348B2	Dana silt loam, 2 to 5 percent slopes Dana silt loam, 2 to 5 percent slopes, eroded Catlin silt loam Wingate silt loam Wingate silt loam, 2 to 5 percent slopes, eroded	56B2	Dana silt loam, 2 to 5 percent slopes, eroded
154 154A 154B 198A	Flanagan silt loam Flanagan silt loam, 0 to 2 percent slopes Elburn silt loam	154A	Flanagan silt loam, 0 to 2 percent slopes
234 234A	Sunbury silt loam Sunbury silt loam, 0 to 2 percent slopes	234A	Sunbury silt loam, 0 to 2 percent slopes
236 236A	Sabina silt loam Sabina silt loam, 0 to 2 percent slopes	236A	Sabina silt loam, 0 to 2 percent slopes
67 67A 153 244 244A	Harpster silty clay loam Harpster silty clay loam, 0 to 2 percent slopes Pella silty clay loam Hartsburg silty clay loam Hartsburg silty clay loam, 0 to 2 percent slopes	244A	Hartsburg silty clay loam, 0 to 2 percent slopes
291A 496A	Xenia silt loam, 0 to 2 percent slopes Fincastle silt loam, 0 to 2 percent slopes	291A	Xenia silt loam, 0 to 2 percent slopes
*291B	Xenia silt loam, 2 to 5 percent slopes	291B	Xenia silt loam, 2 to 5 percent slopes
291B2	Xenia silt loam, 2 to 5 percent slopes, eroded	291B2	Xenia silt loam, 2 to 5 percent slopes, eroded
330 330A	Peotone silty clay loam Peotone silty clay loam, 0 to 2 percent slopes	330A	Peotone silty clay loam, 0 to 2 percent slopes
353A 481A	Toronto silt loam, 0 to 2 percent slopes Raub silt loam, 0 to 2 percent slopes	481A	Raub silt loam, 0 to 2 percent slopes
27B2 618B2	Miami silt loam, 2 to 5 percent slopes, eroded Senachwine silt loam, 2 to 5 percent slopes, eroded	618B2	Senachwine silt loam, 2 to 5 percent slopes, eroded

Moultrie County Soil Correlation Legend--Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
27C2 224C2 322C2 618C2	Miami loam, 5 to 10 percent slopes, eroded Strawn silt loam Russell silt loam Senachwine silt loam, 5 to 10 percent slopes, eroded	618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded
27C3 224C3 618C3	Miami clay loam, 5 to 10 percent slopes, severely eroded Strawn Senachwine clay loam, 5 to 10 percent slopes, severely eroded	618C3	Senachwine clay loam, 5 to 10 percent slopes, severely eroded
27D 27D2 221D2 224D2 618D2	Miami loam, 10 to 18 percent slopes Miami loam, 10 to 18 percent slopes, eroded Parr loam Strawn silt loam Senachwine silt loam, 10 to 18 percent slopes, eroded	618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded
27D3 224D3 618D3	Miami clay loam, 10 to 18 percent slopes, severely eroded Strawn Senachwine clay loam, 10 to 18 percent slopes, severely eroded	618D3	Senachwine clay loam, 10 to 18 percent slopes, severely eroded
27D 27F 224F 618F	Miami loam, 10 to 18 percent slopes Miami loam, 18 to 35 percent slopes Strawn silt loam Senachwine silt loam, 18 to 35 percent slopes	618F	Senachwine silt loam, 18 to 35 percent slopes
27G 224G 618G	Miami loam, 35 to 60 percent slopes Strawn silt loam Senachwine silt loam, 35 to 60 percent slopes	618G	Senachwine silt loam, 35 to 60 percent slopes
60B2 221B2 622B2	La Rose Parr silt loam, 2 to 5 percent slopes, eroded Wyanet silt loam, 2 to 5 percent slopes, eroded	622B2	Wyanet silt loam, 2 to 5 percent slopes, eroded
60C2 221C2 622C2	La Rose Parr loam, 5 to 10 percent slopes, eroded Wyanet silt loam, 5 to 10 percent slopes, eroded	622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
152 152A 722A	Drummer silty clay loam Drummer silty clay loam, 0 to 2 percent slopes Drummer-Milford silty clay loams, 0 to 2 percent slopes	722A	Drummer-Milford silty clay loams, 0 to 2 percent slopes
134A 791A	Camden silt loam, 0 to 2 percent slopes Rush silt loam, 0 to 2 percent slopes	791A	Rush silt loam, 0 to 2 percent slopes

Moultrie County Soil Correlation Legend--Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
134B 134B2 134C2 134C3 791B2	Camden silt loam Camden silt loam, 2 to 5 percent slopes, eroded Camden Rush silt loam, 2 to 5 percent slopes, eroded	791B2	Rush silt loam, 2 to 5 percent slopes, eroded
802B 802D 865	Orthents loamy, 2 to 20 percent slopes Orthents loamy, 2 to 20 percent slopes Pits, gravel	802D	Orthents loamy, 2 to 20 percent slopes
830	Landfills	830	Landfills
1107A 1402	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded Colo silty clay loam, wet	1107A	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
3107 3107A 3402	Sawmill silty clay loam, frequently flooded Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded Colo silty clay loam, frequently flooded	3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
132 132A 3132A 3132	Starks silt loam Starks silt loam Starks silt loam, 0 to 2 percent slopes, frequently flooded Starks silt loam, frequently flooded	3132A	Starks silt loam, 0 to 2 percent slopes, frequently flooded
3074 3074A 3284 3284A 8284	Radford silt loam, frequently flooded Radford silt loam, 0 to 2 percent slopes, frequently flooded Tice silty clay loam, frequently flooded Tice silty clay loam, 0 to 2 percent slopes, frequently flooded Tice silty clay loam	3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
451 3302 3451 3451A	Lawson silt loam Ambraw clay loam Lawson silt loam, frequently flooded Lawson silt loam, 0 to 2 percent slopes, frequently flooded	3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
682B 3073 3073A 8077 8077A	Medway silty clay loam Ross loam Huntsville silt loam, occasionally flooded Huntsville silt loam, 0 to 2 percent slopes, occasionally flooded	8077A	Huntsville silt loam, 0 to 2 percent slopes, occasionally flooded
W	Water	W	Water

* This map unit was added to the legend for use along county lines to achieve an exact join.

Series established by this correlation: None

Series added to the previous correlated legend (April 1999) : Milford, Orthents loamy, and Rush

Series dropped from the previously correlated legend (April 1999) : Camden, Catlin, Fincastle, Harpster, Radford, Toronto, and Wingate

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

Prior soil survey publications: Hopkins, C. G., and others. 1911. Moultrie County Soils. University of Illinois Agricultural Experiment Station Soil Report 2, 38 pp., illus.

The last soil survey of Moultrie County was completed in 1992 and was published by the United States Department of Agriculture, Natural Resources Conservation Service in 1998. It is Illinois Agricultural Experiment Station Soil Report No. 167, "Soil Survey of Moultrie County, Illinois". Reference to the prior soil surveys will be included in the literature citation of the manuscript. This update replaces the 1998 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: Moultrie County, which was published in 1998, joins five modern soil surveys. These are Coles, Douglas, Macon, Piatt, and Shelby Counties in Illinois. Coles County to the east was published in 1993. Douglas County to the east was published in 1971. Macon County to the northwest was published in 1990. Piatt County to the north was published in 1991. Shelby County to the south and west was published in 1996.

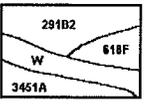
An exact join will be completed with these counties when they are updated to the MLRA legend.

Disposition of field sheets: The original soil maps used for Soil Report #167 were digitally ratioed from the scale of 1:15,840 to 1:12,000 and compiled using "Ortho-Mapper" software, to exactly match orthophoto quarter quads at a scale of 1:12,000. The digital maps will be delivered to the Michigan Digitizing Center. Copies of a computer tape of the final product will remain at the state office, be certified for SSURGO at NCGC, and be provided to the Moultrie County Board as part of the cost share cooperative agreement.

Instructions for map compilation and map finishing: The digital maps and supporting documentation will be delivered to the Michigan Digitizing Center by June 2003. The Charleston MLRA team and GIS staff at the state office will complete a final check 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 shown on the legend and placed on the maps.

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SOIL SURVEY FEATURES		CULTURAL FEATURES (Optional)		HYDROGRAPHIC FEATURES (Optional)	
<p>SOIL DELINEATIONS AND LABELS</p>  <p>STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES</p> <ul style="list-style-type: none"> Bedrock escarpment ✓ Non-bedrock escarpment Gully ✓ Levee ✓ Short steep slope Blowout Borrow pit Clay spot ✓ Closed depression Gravel pit ✓ Gravelly spot Landfill Lava flow Marsh or swamp Mine or quarry Miscellaneous water Perennial water Rock outcrop Saline spot ✓ Sandy spot ✓ Severely eroded spot Sinkhole Slide or slip Sodic spot Spill area Stony spot Very stony spot ✓ Wet spot 		<p>BOUNDARIES</p> <ul style="list-style-type: none"> National, state or province ✓ County or parish Minor civil division Reservation (national or state forest or park) Limit of soil survey (fence) and/or denied access walls ✓ Field sheet machine and machine Public Land Survey System Section Boundary ✓ Public Land Survey System Section Corner Ties <p>TRANSPORTATION</p> <ul style="list-style-type: none"> Divided road Normally not shown Other road Normally not shown Trail Normally not shown <p>ROAD EMBLEMS</p> <ul style="list-style-type: none"> Interstate ✓ Federal ✓ State County, farm or ranch <p>LOCATED OBJECTS</p> <ul style="list-style-type: none"> Airport, airfield Cemetery Church Farmstead, house (omit in urban areas) Lighthouse Located object (label) Lookout tower Oil and/or natural gas well Other Religion (label) School Soil sample site (compiled only not published) Tank (label) Windmill 		<p>Drainage ditch (Indicates direction of flow) </p> <p>Unclassified stream </p> <p>Unclassified drainage or irrigation ditch </p>	
AD HQG FEATURES (Describe on back)					
LABEL	SYMBOL	LABEL	SYMBOL	LABEL	SYMBOL
1		23			
2		24			
3		25			
4		26			
5		27			
6		28			
7		29			
8		30			
9		31			
10		32			
11		33			
12		34			
13		35			
14		36			
15		37			
16		38			
17		39			
18		40			
19		41			
20		42			
21		43			
22		44			

**DEFINITIONS AND GUIDELINES
FOR USE OF CONVENTIONAL AND SPECIAL SYMBOLS
FOR MOULTRIE COUNTY, ILLINOIS
A SUBSET OF MLRA 108A
Scale - 1:12,000**

LABEL	NAME	
DEP	Depression, closed	A shallow, saucer-shaped area that is slightly lower on the landscape than the surrounding area and is without a natural outlet for surface drainage. Typically 1/2 to 3 acres.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 1/2 to 3 acres.
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
GRA	Gravelly spot	A spot where the surface layer has more than 35 percent, by volume, rock fragments that are mostly less than 3 inches in diameter in an area with less than 15 percent fragments. Typically 1/2 to 3 acres.
LVS	Levee	An embankment that confines or controls water, especially one built along the banks of a river to prevent overflow of lowlands.
SAN	Sandy spot	A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 1/2 to 3 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 1/2 to 3 acres.
	Land division corners (section)	Section corners are shown, and section numbers are placed as close to the center of the section as possible.
	Road emblems	Use appropriate symbols for federal and state roads. Other roads will not be labeled.
	Dams (medium or small)	Not shown. If large enough, mapped as 802D.
SOIS	Soil Sample Site	Not shown.
PSDR	Perennial, single line	Not shown.
INDR	Intermittent	Not shown.
DEND	Drainage end	Not shown.
DDIT	Perennial drainage ditch	Not shown.

CORRELATION NOTE:

The Peotone spot symbol that was previously correlated for Soil Report #167 is replaced by the Depression spot symbol with this correlation to the MLRA 108 legend.

The Overwash spot symbol that was previously correlated for Soil Report #167 is dropped from this correlation. This spot symbol was used infrequently and will be considered as an inclusion in the map unit.

Conversion Legend
For Moultrie County, Illinois

Field symbols	Publication symbol
56A	56A
171A	56A
348A	56A
56B	56B2
56B2	56B2
171B	56B2
348B	56B2
348B2	56B2
154	154A
154A	154A
154B	154A
198A	154A
234	234A
234A	234A
236	236A
236A	236A
67	244A
67A	244A
153	244A
244	244A
244A	244A
291A	291A
496A	291A
291B	291B
291B2	291B2
330	330A
330A	330A
353A	481A
481A	481A
27B2	618B2
618B2	618B2
27C2	618C2

Field symbols	Publication symbol
224C2	618C2
322C2	618C2
618C2	618C2
27C3	618C3
224C3	618C3
618C3	618C3
27D	618D2
27D2	618D2
221D2	618D2
224D2	618D2
618D2	618D2
27D3	618D3
224D3	618D3
618D3	618D3
27D	618F
27F	618F
224F	618F
618F	618F
27G	618G
224G	618G
618G	618G
60B2	622B2
221B2	622B2
622B2	622B2
60C2	622C2
221C2	622C2
622C2	622C2
152A	722A
722A	722A
134A	791A
791A	791A
134B	791B2

Field symbols	Publication symbol
134B2	791B2
134C2	791B2
134C3	791B2
791B2	791B2
802B	802D
802D	802D
865	802D
830	830
1107A	1107A
1402	1107A
3107	3107A
3107A	3107A
3402	3107A
132	3132A
132A	3132A
3132	3132A
3132A	3132A
3074	3284A
3284	3284A
3284A	3284A
8284	3284A
451	3451A
3302	3451A
3451	3451A
3451A	3451A
682B	8077A
3073	8077A
3073A	8077A
8077	8077A
8077A	8077A
W	W

**MLRA 108A
MOULTRIE COUNTY SUBSET
ALPHABETICAL IDENTIFICATION LEGEND**

SYMBOL	SOIL NAME
56A	Dana silt loam, 0 to 2 percent slopes
56B2	Dana silt loam, 2 to 5 percent slopes, eroded
722A	Drummer-Milford silty clay loams, 0 to 2 percent slopes
154A	Flanagan silt loam, 0 to 2 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes
8077A	Huntsville silt loam, 0 to 2 percent slopes, occasionally flooded
830	Landfills
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
802D	Orthents loamy, 2 to 20 percent slopes
330A	Peotone silty clay loam, 0 to 2 percent slopes
481A	Raub silt loam, 0 to 2 percent slopes
791A	Rush silt loam, 0 to 2 percent slopes
791B2	Rush silt loam, 2 to 5 percent slopes, eroded
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, undrained, 0 to 2 percent slopes, frequently flooded
618C3	Senachwine clay loam, 5 to 10 percent slopes, severely eroded
618D3	Senachwine clay loam, 10 to 18 percent slopes, severely eroded
618B2	Senachwine silt loam, 2 to 5 percent slopes, eroded
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
618G	Senachwine silt loam, 35 to 60 percent slopes
3132A	Starks silt loam, 0 to 2 percent slopes, frequently flooded
234A	Sunbury silt loam, 0 to 2 percent slopes
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
W	Water
622B2	Wyanet silt loam, 2 to 5 percent slopes, eroded
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
291A	Xenia silt loam, 0 to 2 percent slopes
291B	Xenia silt loam, 2 to 5 percent slopes
291B2	Xenia silt loam, 2 to 5 percent slopes, eroded

**MLRA 108A
MOULTRIE COUNTY SUBSET
NUMERICAL IDENTIFICATION LEGEND**

SYMBOL	SOIL NAME
56A	Dana silt loam, 0 to 2 percent slopes
56B2	Dana silt loam, 2 to 5 percent slopes, eroded
154A	Flanagan silt loam, 0 to 2 percent slopes
234A	Sunbury silt loam, 0 to 2 percent slopes
236A	Sabina silt loam, 0 to 2 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes
291A	Xenia silt loam, 0 to 2 percent slopes
291B	Xenia silt loam, 2 to 5 percent slopes
291B2	Xenia silt loam, 2 to 5 percent slopes, eroded
330A	Peotone silty clay loam, 0 to 2 percent slopes
481A	Raub silt loam, 0 to 2 percent slopes
618B2	Senachwine silt loam, 2 to 5 percent slopes, eroded
618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded
618C3	Senachwine clay loam, 5 to 10 percent slopes, severely eroded
618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded
618D3	Senachwine clay loam, 10 to 18 percent slopes, severely eroded
618F	Senachwine silt loam, 18 to 35 percent slopes
618G	Senachwine silt loam, 35 to 60 percent slopes
622B2	Wyanet silt loam, 2 to 5 percent slopes, eroded
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
722A	Drummer-Milford silty clay loams, 0 to 2 percent slopes
791A	Rush silt loam, 0 to 2 percent slopes
791B2	Rush silt loam, 2 to 5 percent slopes, eroded
802D	Orthents loamy, 2 to 20 percent slopes
830	Landfills
1107A	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
3132A	Starks silt loam, 0 to 2 percent slopes, frequently flooded
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
8077A	Huntsville silt loam, 0 to 2 percent slopes, occasionally flooded
W	Water

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

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

Sampled As	Lab Number	Publication Symbol	Approved Series
Colo	90IL-139-001	3107A	Colo mapped as an inclusion in Sawmill.
Parr	90IL-139-002	622B2	Wyanet
Sabina	90IL-139-003	236A	Sabina
Xenia	90IL-139-004	291B2	Xenia

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

None

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

Sampled As	Lab Number	Publication Symbol	Approved Series
Colo	90IL-139-001	3107A	Colo mapped as an inclusion in Sawmill.
Parr	90IL-139-002	622B2	Wyanet
Sabina	90IL-139-003	236A	Sabina
Xenia	90IL-139-004	291B2	Xenia

**Notes to accompany the
Classification and Correlation
of the Soils of
Moultrie County, Illinois**

Prepared by Christopher C. Cochran, Tonie J. Endres and Ronald D. Collman

CAMDEN SERIES – Dropped with this amendment. See notes for Rush series.

CATLIN SERIES – Dropped with this amendment. The unit 171B was only added to the 4/1999 correlation to join adjacent counties. Moultrie County originally joined these counties with 154A, which the adjacent counties already had on their legend. The 171B polygon was terminated within the adjacent county and the join was completed using 154A.

COLO SERIES - See notes for Sawmill series.

DANA SERIES - Previously correlated for Soil Report #167. The typical pedon for the subset taxonomic unit is the OSD type location in Edgar County (98IL-045-002). Map unit 56B is dropped with this amendment. It was added in the 4/1999 correlation to join a few areas along Coles and Macon Counties. Mapping units common to both surveys are being used for the join.

The Dana soils in the 56B2 map unit are taxadjuncts to the series because they have a thinner, dark colored surface layer than defined for the series. They are fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs. 56A: 89IL-139-005; DMU 154661 MLRA 108A 56B2: 88IL-113-036; DMU 153476 MLRA 108A.

DRUMMER SERIES - Previously correlated for Soil Report #167. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (77IL-019-034). Six representative transects, in what was mapped 152A, indicated that Drummer polygons are complexes and not consociations in this survey area. Using the series control section (80 inches) as the determining criteria for what is the underlying parent material: loamy or sandy outwash accounted for 20% of the p.m.; loamy till accounted for another 20% of the p.m.; and stratified silty lacustrine sediments accounted for the remaining 60% of the p.m. About 67% of the polygon area classifies in the “fine-silty” family and 30 percent has enough clay to classify in the “fine” family. The remaining 3% is “fine-loamy”. The soils encountered on these transects listed in a descending order of occurrence are Milford, Drummer, Patton, Hartsburg, Elpaso, Harpster, Selma, Flanagan, Peotone, and Saybrook. With exception of Flanagan and Saybrook, all of these soils are Aquolls with an apparent water table—“endo saturation”. Since Milford and Drummer were the two most prevalent series, after consultation with John Doll, we decided to use these series to name the map unit. Milford would represent the “fine” textured soils and to a lesser degree, the soils underlain by lacustrine material. Drummer would represent the “fine-silty” soils. Contrasting or dissimilar inclusions make up about 5% of the map unit. The resulting map unit is Drummer-Milford silty clay loams, 0 to 2 percent slopes. Drummer and similar soils make up about 60 percent of the polygon. Milford and similar soils make up about 35 percent of the polygon. See Milford. 722A Drummer: 77IL-019-034; DMU 443051 MLRA 108A

FINCASTLE SERIES – Dropped with this amendment. Too few acres (only 40) were mapped and the unit appeared to be added to the legend solely for a join. The counties now join with the series Xenia that is common to both surveys.

FLANAGAN SERIES - Previously correlated for Soil Report #167. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (76IL-019-022); DMU151643 MLRA 108A.

HARPSTER SERIES – Dropped with this amendment. Although areas of Harpster occur throughout Moultrie County, the series was correlated as Hartsburg in the 1998 survey. It was brought back in the 4/1999 correlation, but only for joining purposes. Since the locations of other Harpster polygons are now blended with Hartsburg, it did not seem right to identify only 5-6 acres along a county line as being Harpster when potentially several hundred acres may exist as inclusions to Hartsburg. Since Hartsburg is common to adjacent surveys, that is what was used to join. Harpster is a similar inclusion in Hartsburg and Drummer.

HARTSBURG SERIES - Previously correlated for Soil Report #167. Slope is added to the map unit name. The typical pedon for the subset taxonomic unit is the OSD type location in Logan County (96IL-107-010); DMU 153413 MLRA 108B.

HUNTSVILLE SERIES - Previously correlated for Soil Report #167. Slope is added to the map unit name. The typical pedon for the subset taxonomic unit is the OSD from MLRA 108B Knox County (78IL-095-004); DMU 410847. Correlation notes from McLean County indicated that this was from MLRA 115C. Using ArcView we determined that it actually was in 108B by about 100 meters.

LANDFILLS – This miscellaneous land type supports vegetation and would technically be a soil (i.e. Orthents, loamy). Soil Report #167 identified the area as 236A or Sabina. The area covers about 31.5 acres and is on a 4 to 7 percent slope. The soil used as a cap on the landfill contains a lot of recognizable trash such as plastic sanitary applicators, bottles, diapers, plastic grocery bags, paper, etc. The cap varies in thickness but is thought to be from 2 to 6 feet. This area was incorrectly mapped as Sabina. Due to the nature of cap and buried material at this site, this area is sufficiently different from what we are mapping as Orthents, loamy, and is significant enough to be identified as a separate map unit. 830: DMU 154002.

LAWSON SERIES - Previously correlated for Soil Report #167. Slope is added to the map unit name. The typical pedon for the subset taxonomic unit is from Whiteside County (84IL-195-326); DMU 154674 MLRA 108B.

MIAMI SERIES – Dropped. Previously correlated for Soil Report #167. See notes for Senachwine series.

MILFORD – This series was added to the legend after transects in the 152A Drummer silty clay loam, 0 to 2 percent map unit indicated that “fine” textures and silty lacustrine material made up a significant amount of the unit. Milford in the Drummer-Milford silty clay loams complex is formed in 40 to 60 inches of loess and underlying lacustrine sediments; has a sola depth greater than 60 inches; has a dominant texture of stratified silt loam in the lower part of the series control section; and has a mean annual air temperature of 53 to 54 degrees F. These characteristics are slightly outside of the established range of characteristics for the Milford series. This difference, however, does not significantly affect use or management of the soil. Secondcreek series from Ohio may be a slightly better fit, however, the SIL textures in the C horizon would be outside the ROC for that series as well. See additional discussion under Drummer. 722A: Milford – 02IL-139-002; DMU 443051 MLRA 108A.

ORTHENTS – Added with this amendment. This higher level of classification is being used to identify areas of built-up or made land and areas of pits and dumps associated with sand and gravel quarrying along major drainageways. All of these areas support vegetation and therefore qualify as soil rather than miscellaneous land types Pits, gravel or Pits, sand. Aquents make the largest inclusion in this unit, esp. in the pit portion of sand and gravel operations areas. These areas were delineated on the original field sheets. They were correlated to 291B2 in Soil Report #167. This update recognizes these areas as stand alone and unique mapping units. 802D: DMU 443076.

PARR SERIES – Dropped. Previously correlated for Soil Report #167. See notes for Wyanet series.

PEOTONE SERIES - Previously correlated for Soil Report #167. Slope is added to the map unit name. The grade of structure described in this pedon is weaker than is typical for Peotone. A review of this site may be in order to reassess the grade of structure. This difference alone does not significantly affect use or management of the soil. The typical pedon for the subset taxonomic unit is from Macon County (81IL-115-035); DMU 154675 MLRA 108A.

RADFORD SERIES – Dropped with this amendment. Previously correlated for Soil Report #167 to achieve an exact join with Shelby County. Originally mapped Lawson, not Radford in Moultrie County. A common soil, Tice, which has properties similar to Radford soils in Shelby County and to Lawson soils in Moultrie County is used to join this rather small area.

RAUB SERIES - Previously correlated for Soil Report #167. This soil has a 2BC horizon that is slightly alkaline, which is not specifically recognized in the ROC for the series. However, this difference alone does not affect use or management of the soil. The typical pedon for the subset taxonomic unit is from Champaign County (76IL-019-053); DMU 151832 MLRA 108A.

RUSH – Added with this amendment. A review of areas mapped Camden along the major drainageways in the county indicated that the vast majority of these areas were underlain by sand and gravel. Most of the gravel pits in the county are located in and around these units. Rush series better reflect these materials. 791A: 03IL-139-001 DMU 443183 MLRA 108A; 791B2: 03IL-139-002; DMU 443182 MLRA 108A.

SABINA SERIES - Previously correlated for Soil Report #167. This soil is a taxadjunct to the series. As described, it is better drained than what is allowed for the Sabina series. It classifies as fine, smectitic, mesic Aquic Hapludalfs. The typical pedon for the subset taxonomic unit is from MLRA 108A McLean County (88IL-113-037); DMU 409602 MLRA 108A.

The County's only landfill was mapped Sabina in Soil Report #167. This area was considered large enough to map with this re-correlation as 830 Landfills. See Landfills.

SAWMILL SERIES - Previously correlated for Soil Report #167 to achieve an exact join with Coles, Macon, and Piatt Counties. With this correlation, this series replaces those soils that were previously mapped as Colo series in order to improve continuity of soil mapping in MLRA 108A. Colo series was not correlated in adjoining counties and are considered to be similar inclusions in Sawmill map units. Slope is added to the map unit name. The typical pedon for the subset taxonomic unit is from MLRA 108B Sangamon County (99IL-167-008); DMU 153474 MLRA 108B.

Areas of map unit 1107A are on flood plains at the headwaters of Lake Shelbyville. The wetness is strongly influenced by the management of water levels in Lake Shelbyville, a US Army Corps of Engineers' flood control reservoir. The areas are managed for wildlife habitat. The typical pedon for the subset taxonomic unit is from MLRA 115C Whiteside County: (85IL-195-338); DMU 154673 MLRA 108B.

SENACHWINE SERIES - This series replaces those soils previously correlated for Soil Report #167 as Miami series. These soils are well drained and classify as Typic Hapludalfs. The typical pedon for the subset taxonomic unit is the OSD type location in Bureau County (82IL-011-187). The surface texture in map units 618C2, 618D2, 618F, and 618G is changed from loam to silt loam. Unless they are severely eroded, the soils in these map units typically have a silt loam (20 to 30 percent sand) surface texture in MLRA 108A. Severely eroded soils have a clay loam surface texture. Soils with a loam surface texture are considered to be similar inclusions. The soils in map unit 618D3 in Moultrie County are less acid in the Bt horizon and are shallower to carbonates than is defined for the series.

618B2: 87IL-173-015; DMU 154610 MLRA 114.
618C2: 82IL-011-182; DMU 153459 MLRA 108A.
618C3: 91IL-139-007; DMU 154667 MLRA 108A.
618D2: 82IL-011-187; DMU 153460 MLRA 108A.
618D3: 91IL-139-011; DMU 154668 MLRA 108A.
618F: 82IL-011-080; DMU 153461 MLRA 108A.
618G: 83IL-039-008; DMU 153399 MLRA 108A.

STARKS SERIES - Previously correlated for Soil Report #167. These soils are adjacent to Lake Shelbyville at the upper end of the lake. The flooding is the result of the management of water levels in the lake. Starks soils in Moultrie County are on stream terraces along floodways associated with Lake Shelbyville. The lake was built by the COE in the late 1960's for flood control and recreation. The lake fluctuates in level depending on inflows and releases. The lake floodpool now inundates areas that previously did not normally flood. The Starks soils are in the floodpool areas. Consequently, these terraces flood.

In addition, Starks soils are underlain by sand or sand and gravel in this soil survey area. These characteristics are outside of the established range of characteristics for the Starks series. This difference, however, does not significantly affect use or management of the soil. Also, the Starks typical pedon may have "episaturation vs. endosaturation" based on coloration. Gleying drops off precipitously below 43 inches. The soils become browner below this depth. However, there is not enough data to confirm that these soils on stream terraces are in fact Epiaqualfs and taxadjuncts. Waynetown series from Indiana was looked at as a possibility but not enough data is available for a decision. The typical pedon for the subset taxonomic unit is from Moultrie County (91IL-139-013); DMU 154669. MLRA 108A

SUNBURY SERIES - Previously correlated for Soil Report #167. The typical pedon for the subset taxonomic unit is the OSD type location in Douglas County (98IL-041-003); DMU 153453. MLRA 108A

TICE SERIES - Previously correlated for Soil Report #167. Slope is added to the map unit name. The typical pedon for the subset taxonomic unit is from Macon County (80IL-115-046); DMU 154609. MLRA 108B

TORONTO SERIES – Dropped with this amendment. Previously correlated for Soil Report #167 to achieve an exact join with Coles County. This unit accounted for fewer than 80 acres in report #167. The pedon chosen to be representative in Soil Report #167 is an eroded Raub. Silt coatings on ped faces in the upper part of the Bt horizon, characteristic of Mollic intergrades of Alfisols, are absent. These soils were recorrelated to Raub for the join.

WATER - Composed primarily of Lake Shelbyville with an additional 132 small ponds. The total water area in Moultrie County is 6,120 acres.

WINGATE SERIES – Dropped with this amendment. Previously correlated for Soil Report #167. The representative pedon chosen for report #167 fits the eroded phase of Dana better than the pedon chosen to represent Dana. The difference between Dana and Wingate in this survey area is too minor to justify two map units.

WYANET SERIES - This series replaces those soils previously correlated for Soil Report #167 as Parr series. These soils are well drained and classify as Typic Argiudolls. The typical pedon for the subset taxonomic unit is from Bureau County 622B2 (83IL-011-017); DMU 154672. MLRA 108A. The Wyanet soil in 622B2 has a surface layer that is slightly thinner than defined for the series. However, due to a quirk in Soil Taxonomy, it fits

the classification for Wyanet. The sola depth is 24 inches and the mollic epipedon is 8 inches, which is 1/3 the sola depth.

The Wyanet soils in 622C2 are taxadjuncts to the Wyanet series because they have a thinner, dark colored surface layer than is defined for the series. They are fine-loamy, mixed, active, mesic Mollic Hapludalfs. 622C2: 83IL-011-067; DMU 153462. MLRA 108A

XENIA SERIES - Previously correlated for Soil Report #167 as 291A and 291B2. Map unit 291B is added to the legend but will be used only along the join with Coles and Shelby Counties. Included with this map unit for join purposes are areas formerly mapped as Fincastle, 496A. Areas within 291B delineations that are less than 2 percent slope will be identified in the soil survey update as similar inclusions.

. Areas field mapped as 802B were correlated as Xenia, 291B2, in Soil Report #167. With this correlation, these areas are remapped as 802D. Original field sheets were used to locate these areas.

The typical pedon for the subset is from Champaign County (76IL-019-0420).

Xenia in 291B2 is outside the RIC for the series. Carbonates occur too high in the profile. A rewriting of the RIC to accommodate this deviation is not considered to be the proper move at this time. See Fincastle for additional notes

291A: 90IL-139-036; DMU 154663. MLRA 108A

291B: 76IL-019-042; DMU 151661. MLRA 108A

291B2 90IL-139-004; DMU 154664. MLRA 108A

PRIME FARMLAND**MOULTRIE COUNTY, ILLINOIS**

SYMBOL	SOIL NAME
56A	Dana silt loam, 0 to 2 percent slopes
56B2	Dana silt loam, 2 to 5 percent slopes, eroded
154A	Flanagan silt loam, 0 to 2 percent slopes
234A	Sunbury silt loam, 0 to 2 percent slopes
236A	Sabina silt loam, 0 to 2 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes (if drained)
291A	Xenia silt loam, 0 to 2 percent slopes
291B	Xenia silt loam, 2 to 5 percent slopes
291B2	Xenia silt loam, 2 to 5 percent slopes, eroded
330A	Peotone silty clay loam, 0 to 2 percent slopes (if drained)
481A	Raub silt loam, 0 to 2 percent slopes
618B2	Senachwine silt loam, 2 to 5 percent slopes, eroded
622B2	Wyanet silt loam, 2 to 5 percent slopes, eroded
722A	Drummer-Milford silty clay loams, 0 to 2 percent slopes (if drained)
791A	Rush silt loam, 0 to 2 percent slopes
791B2	Rush silt loam, 2 to 5 percent slopes, eroded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3132A	Starks silt loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded (if protected from flooding or not frequently flooded during the growing season)
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded (if protected from flooding or not frequently flooded during the growing season)
8077A	Huntsville silt loam, 0 to 2 percent slopes, occasionally flooded

Classification of the Soils of Moultrie County, Illinois

(An asterisk in the first column indicates a taxadjunct to the series. Where the soil name appears twice, one or more map units using the taxonomic reference term are taxadjuncts to the series. See the "Notes to Accompany..." for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Dana-----	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
*Dana-----	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Drummer-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Flanagan-----	Fine, smectitic, mesic Aquic Argiudolls
Hartsburg-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Huntsville-----	Fine-silty, mixed, superactive, mesic Cumulic Hapludolls
Lawson-----	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Milford-----	Fine, mixed, superactive, mesic Typic Endoaquolls
Pectone-----	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
Raub-----	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Rush-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
*Sabina-----	Fine, smectitic, mesic Aquic Hapludalfs
Sawmill-----	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Senachwine-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Starks-----	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Sunbury-----	Fine, smectitic, mesic Aquollic Hapludalfs
Tice-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Wyanet-----	Fine-loamy, mixed, active, mesic Typic Argiudolls
*Wyanet-----	Fine-loamy, mixed, active, mesic Mollic Hapludalfs
Xenia-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs

CERTIFICATION STATEMENT

The MLRA Region 11 Team Leader certifies that:

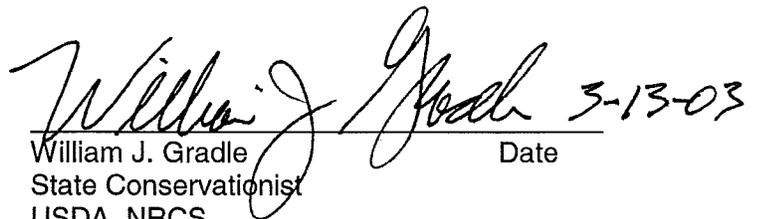
- a. The fieldwork activities were completed in December 1998.
- b. Moultrie County joins the following survey areas:
 - Coles County to the east was published in 1993.
 - Douglas County to the east was published in 1971.
 - Macon County to the west was published in 1990.
 - Piatt County to the north was published in 1991.
 - Shelby County to the south and west was published in 1996.

An exact join will be completed when these counties 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 correct location and for the soil delineations using that name. Typical pedons are those that represent the taxonomic units in MLRA 108A. Not all typical pedons are located in Moultrie County.
- e. All typical pedons are classified according to Keys of Soil Taxonomy, Eighth edition, 1998.
- f. The digital soil maps will be reviewed for accuracy and consistency.

Approval Signature and Date


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

Date


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

Date

