United States
Department of
Agriculture

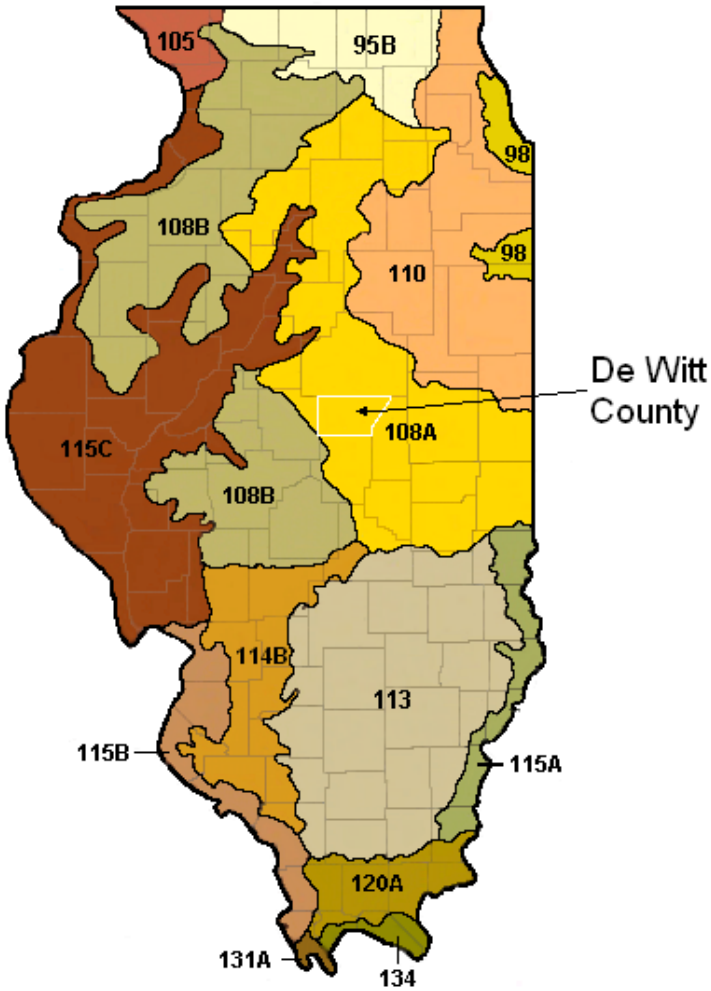
**Natural Resources
Conservation Service**

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

Classification and Correlation of Soils in De Witt County, Illinois

A Subset of MLRA 108A and 108B

November 2005



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

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

CLASSIFICATION AND CORRELATION OF THE SOILS OF DE WITT COUNTY, ILLINOIS

A SUBSET OF MLRA 108A and MLRA 108B

November 2005

This correlation amendment was prepared by Troy Fehrenbacher, 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 De Witt County, a subset of MLRA's 108A and 108B. It is based on transect data, pedon descriptions, laboratory data, field soil maps, join statements, and descriptive legend. Sources used in the literature review include "Classification and Correlation of the Soils of De Witt County, Illinois" – October, 1986, and the published "Soil Survey of De Witt County, Illinois" – September, 1991.

HEADNOTE FOR DETAILED SOIL SURVEY LEGEND

This update of De Witt County, Illinois is an update subset of the Soil Survey of Major Land Resource Areas (MLRA's) 108A and 108B. Map unit 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 for miscellaneous units.

Soil Correlation Of
De Witt County, Illinois:

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
17	Keomah silt loam	17A	Keomah silt loam, 0 to 2 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes		
27D2	Miami loam, 10 to 15 percent slopes, eroded	27D2	Miami silt loam, 10 to 18 percent slopes, eroded
27D2	Miami silt loam, 10 to 18 percent slopes, eroded		
27E	Miami loam, 15 to 30 percent slopes		
43	Ipava silt loam	43A	Ipava silt loam, 0 to 2 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes		
206	Thorp silt loam		
45	Denny silt loam	45A	Denny silt loam, 0 to 2 percent slopes
45A	Denny silt loam, 0 to 2 percent slopes		
56B2	Dana silt loam, 2 to 5 percent slopes, eroded	56B2	Dana silt loam, 2 to 5 percent slopes, eroded
56B2	Dana silt loam, 2 to 6 percent slopes, eroded		
67	Harpster silty clay loam	67A	Harpster silty clay loam, 0 to 2 percent slopes
67A	Harpster silty clay loam, 0 to 2 percent slopes		
68	Sable silty clay loam	68A	Sable silty clay loam, 0 to 2 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes		
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded		
36B	Tama silt loam, 1 to 5 percent slopes	86B	Osco silt loam, 2 to 5 percent slopes
86B	Osco silt loam, 2 to 5 percent slopes		
134C2	Camden silt loam, 5 to 10 percent slopes, eroded	134C2	Camden silt loam, 5 to 10 percent slopes. eroded
27D2	Miami loam, 10 to 15 percent slopes, eroded		
27E	Miami loam, 15 to 30 percent slopes		
27G	Miami silt loam, 30 to 50 percent slopes		
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded		
322C2	Russell silt loam, 5 to 10 percent slopes, eroded		
322D3	Russell silty clay loam, 10 to 15 percent slopes, severely eroded		
138	Shiloh silty clay loam	138A	Shiloh silty clay loam, 0 to 2 percent slopes
138A	Shiloh silty clay loam, 0 to 2 percent slopes		
148B2	Proctor silt loam, 2 to 5 percent slopes, eroded	148B2	Proctor silt loam, 2 to 5 percent slopes, eroded
148B2	Proctor silt loam, 2 to 6 percent slopes, eroded		
171B	Catlin silt loam, 2 to 5 percent slopes	171B	Catlin silt loam, 2 to 5 percent slopes
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded		
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded	171B2	Catlin silt loam, 2 to 5 percent slopes, eroded

Soil Correlation---continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
171B 171B2	Catlin silt loam, 2 to 5 percent slopes Catlin silt loam, 2 to 5 percent slopes, eroded	171B	Catlin silt loam, 2 to 5 percent slopes
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded	171B2	Catlin silt loam, 2 to 5 percent slopes, eroded
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded	171C2	Catlin silt loam, 5 to 10 percent slopes, eroded
43 198 198A	Ipava silt loam Elburn silt loam Elburn silt loam, 0 to 2 percent slopes	198A	Elburn silt loam, 0 to 2 percent slopes
199A	Plano silt loam, 0 to 2 percent slopes	199A	Plano silt loam, 0 to 2 percent slopes
199B2	Plano silt loam, 2 to 5 percent slopes, eroded	199B2	Plano silt loam, 2 to 5 percent slopes, eroded
233B 233B	Birkbeck silt loam, 2 to 5 percent slopes Birkbeck silt loam, 1 to 4 percent slopes	233B	Birkbeck silt loam, 2 to 5 percent slopes
233C2	Birkbeck silt loam, 4 to 8 percent slopes, eroded Birkbeck silt loam, 5 to 10 percent slopes, eroded	233C2	Birkbeck silt loam, 5 to 10 percent slopes, eroded
233B 233C2 243B 243B	Birkbeck silt loam, 1 to 4 percent slopes Birkbeck silt loam, 4 to 8 percent slopes, eroded St. Charles silt loam, 2 to 5 percent slopes St. Charles silt loam, 1 to 5 percent slopes	243B	St. Charles silt loam, 2 to 5 percent slopes
244 244A	Hartsburg silty clay loam Hartsburg silty clay loam, 0 to 2 percent slopes	244A	Hartsburg silty clay loam, 0 to 2 percent slopes
206 272A	Thorp silt loam Edgington silt loam, 0 to 2 percent slopes	272A	Edgington silt loam, 0 to 2 percent slopes
27D2 27E 279B 279B	Miami loam, 10 to 15 percent slopes, eroded Miami loam, 15 to 30 percent slopes Rozetta silt loam, 1 to 5 percent slopes Rozetta silt loam, 2 to 5 percent slopes	279B	Rozetta silt loam, 2 to 5 percent slopes
27D2 27E 279B 279B2	Miami loam, 10 to 15 percent slopes, eroded Miami loam, 15 to 30 percent slopes Rozetta silt loam, 1 to 5 percent slopes Rozetta silt loam, 2 to 5 percent slopes, eroded	279B2	Rozetta silt loam, 2 to 5 percent slopes, eroded
322C2	Russell silt loam, 5 to 10 percent slopes, eroded	322C2	Russell silt loam, 5 to 10 percent slopes, eroded

Soil Correlation---continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
322D3	Russell silty clay loam, 10 to 18 percent slopes, severely eroded	322D3	Russell silty clay loam, 10 to 18 percent slopes, severely eroded
322D3	Russell silty clay loam, 10 to 15 percent slopes, severely eroded		
330	Peotone silty clay loam	330A	Peotone silty clay loam, 0 to 2 percent slopes
330A	Peotone silty clay loam, 0 to 2 percent slopes		
533	Urban land	533	Urban land
27E	Miami loam, 15 to 30 percent slopes	618F	Senachwine silt loam, 18 to 35 percent slopes
618F	Senachwine silt loam, 18 to 35 percent slopes		
27G	Miami silt loam, 30 to 50 percent slopes	618G	Senachwine silt loam, 35 to 60 percent slopes
618G	Senachwine silt loam, 35 to 60 percent slopes		
221C2	Parr silt loam, 5 to 10 percent slopes, eroded	622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
622C2	Wyanet silt loam, 5 to 10 percent slopes		
243B	St. Charles silt loam, 1 to 5 percent slopes	667B	Kaneville silt loam, 2 to 5 percent slopes
667B	Kaneville silt loam, 2 to 5 percent slopes		
198	Elburn silt loam	726A	Elburn silt loam, sandy substratum, 0 to 2 percent slopes
683	Lawndale silt loam		
726A	Elburn silt loam, sandy substratum, 0 to 2 percent slopes		
36B	Tama silt loam, 1 to 5 percent slopes	737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes
737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes		
36B	Tama silt loam, 1 to 5 percent slopes	748A	Plano silt loam, sandy substratum, 0 to 2 percent slopes
199A	Plano silt loam, 0 to 2 percent slopes		
199B2	Plano silt loam, 2 to 5 percent slopes, eroded		
748A	Plano silt loam, sandy substratum, 0 to 2 percent slopes		
148B2	Proctor silt loam, 2 to 6 percent slopes, eroded	748B	Plano silt loam, sandy substratum, 2 to 5 percent slopes
199B2	Plano silt loam, 2 to 5 percent slopes, eroded		
684B	Broadwell silt loam, 2 to 5 percent slopes		
748B	Plano silt loam, sandy substratum, 2 to 5 percent slopes		
36B	Tama silt loam, 1 to 5 percent slopes	749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes
749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes		
802B	Orthents, loamy, undulating	802B	Orthents, loamy, undulating
802B	Orthents, loamy, gently sloping		
802D	Orthents, loamy, 2 to 20 percent slopes	802D	Orthents, loamy, 2 to 20 percent slopes
802D	Orthents, loamy, strongly sloping		

Soil Correlation---continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
865	Pits, gravel	865	Pits, gravel
27D2	Miami loam, 10 to 15 percent slopes, eroded	964F	Miami and Hennepin Soils, 18 to 35 percent slopes
27E	Miami loam, 15 to 30 percent slopes		
964F	Miami and Hennepin Soils, 18 to 35 percent slopes		
73	Ross loam	3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded		
107	Sawmill silty clay loam	3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded		
451	Lawson silt loam	3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded		
134C2	Camden silt loam, 5 to 10 percent slopes, eroded	7134C	Camden silt loam, 5 to 10 percent slopes, rarely flooded
7134C	Camden silt loam, 5 to 10 percent slopes, rarely flooded		
148B2	Proctor silt loam, 2 to 6 percent slopes, eroded	7148B	Proctor silt loam, 2 to 5 percent slopes, rarely flooded
7148B	Proctor silt loam, 2 to 5 percent slopes, rarely flooded		
43	Ipava silt loam	7198A	Elburn silt loam, 0 to 2 percent slopes, rarely flooded
198	Elburn silt loam		
7198A	Elburn silt loam, 0 to 2 percent slopes, rarely flooded		
199A	Plano silt loam, 0 to 2 percent slopes	7199A	Plano silt loam, 0 to 2 percent slopes, rarely flooded
199B2	Plano silt loam, 2 to 5 percent slopes, eroded		
7199A	Plano silt loam, 0 to 2 percent slopes, rarely flooded		
199B2	Plano silt loam, 2 to 5 percent slopes, eroded	7199B	Plano silt loam, 2 to 5 percent slopes, rarely flooded
7199B	Plano silt loam, 2 to 5 percent slopes, rarely flooded		
17	Keomah silt loam	7242A	Kendall silt loam, 0 to 2 percent slopes, rarely flooded
7242A	Kendall silt loam, 0 to 2 percent slopes, rarely flooded		
68	Sable silty clay loam	7243B	St. Charles silt loam, 2 to 5 percent slopes, rarely flooded
243B	St. Charles silt loam, 1 to 5 percent slopes		
279B	Rozetta silt loam, 1 to 5 percent slopes		
7243B	St. Charles silt loam, 2 to 5 percent slopes, rarely flooded		

Soil Correlation---continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
107	Sawmill silty clay loam	8074A	Radford silt loam, 0 to 2 percent slopes, occasionally flooded
8074A	Radford silt loam, 0 to 2 percent slopes, occasionally flooded		
68	Sable silty clay loam	8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded
107	Sawmill silty clay loam		
8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded		
451	Lawson silt loam	8451A	Lawson silt loam, 0 to 2 percent slopes, occasionally flooded
8451A	Lawson silt loam, 0 to 2 percent slopes, occasionally flooded		
415	Orion silt loam	8720A	Aetna silt loam, 0 to 2 percent slopes, occasionally flooded
8720A	Aetna silt loam, 0 to 2 percent slopes, occasionally flooded		
M-W	Miscellaneous water	M-W	Miscellaneous water
W	Water	W	Water

Series established by this correlation: None

Series or components added to the previous correlated legend (October 1986): Aetna, Buckhart, Edgington, Hennepin, Kaneville, Kendall, Osco, Radford, Senachwine, Wyanet

Series dropped from the previously correlated legend (October 1986): Broadwell, Lawndale, Orion, Parr, Thorp

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

The last soil survey of De Witt County was completed in 1985 and was published by the United States Department of Agriculture, Natural Resources Conservation Service in 1991. It is Illinois Agricultural Experiment Station Soil Report No. 137, “Soil Survey of De Witt County, Illinois". Reference to the prior soil survey will be included in the literature citation of the manuscript. This update replaces the 1991 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: De Witt County, which was published in 1991, joins four modern soil surveys. These are McLean, Piatt, Macon, and Logan Counties in Illinois. McLean County to the north is an update county and was published in 2004. Piatt County to the east was published in 1991. Macon County to the south was published in 1990. Logan County to the west was published in 1974. An acceptable join exists with all adjoining counties. An exact join will be completed with these counties when they are updated to the MLRA legend.

Disposition of field sheets: The publication soil map materials used for Soil Report No. 137 were compiled using “Ortho-Mapper” software to match orthophoto quarter quads at a scale of 1:12,000. The quarter quads were vectorized and labeled in ArcInfo, and delivered to the Kansas Digitizing Center. The final SSURGO certified product will be available at the Soil Datamart, the NRCS state office, and will be provided to the De Witt 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 Kansas Digitizing Center. The Charleston MLRA team and GIS staff at the state office will complete a final check before SSURGO certification.

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

NRCS-SOI-37a
REVISED MAY 2001

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

U.S. DEPARTMENT OF AGRICULTURE

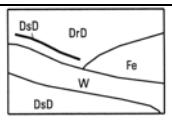
Soil Survey Area: De Witt County

NATURAL RESOURCES CONSERVATION SERVICE

State: Illinois

Date: November, 2005

SOIL SURVEY FEATURES

SOIL DELINEATIONS AND LABELS	

STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES

Non-bedrock escarpment	
Short steep slope	
Closed depression	
Gravel pit	
Marsh or swamp	
Sandy spot	
Severely eroded spot	
Wet spot	

AD HOC FEATURES

CAL	29	

CULTURAL FEATURES (Optional)

National, state or providence	
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 DE WITT COUNTY, ILLINOIS

LABEL	NAME	DESCRIPTION OF FEATURE
DEP	Depression, closed	A shallow, saucer-shaped area that is slightly lower on the landscape than the surrounding area and is without a natural outlet for surface drainage. Typically 1/2 to 3 acres.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 1/4 to 1 acres.
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
GPI	Gravel pit	An open excavation from which soil and underlying material have been removed and used, without crushing, as a source of sand or gravel. Typically 1 to 6 acres.
MAR	Marsh or swamp	A water saturated, very poorly drained area, intermittently or permanently covered by water. Sedges, cattails, and rushes dominate marsh areas. Trees or shrubs dominate swamps. Not used in map units where the named components are poorly or very poorly drained. Typically 1/2 to 3 acres.
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.
CAL	Calcareous spot	An area of Harpster series that was too small to map. Typically 1 to 3 acres in size. See Harpster series.
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 to 3 acres.

Soil Mapunit Symbol Conversion Legend
De Witt County, Illinois

Field symbols	Publication symbol		Field symbols	Publication symbol		Field symbols	Publication symbol
17	17A		73	3073A		233B	233B
17	7242A		86B	86B		233B	243B
17A	17A		107	3107A		233C2	233C2
27D2	27D2		107	8074A		233C2	233C2
27D2	27D2		107	8107A		233C2	243B
27D2	134C2		134C2	134C2		243B	243B
27D2	279B		134C2	7134C		243B	243B
27D2	279B2		138	138A		243B	667B
27D2	964F		138A	138A		243B	7243B
27E	27D2		148B2	148B2		244	244A
27E	134C2		148B2	148B2		244A	244A
27E	279B		148B2	748B		272A	272A
27E	279B2		148B2	7148B		279B	279B
27E	618F		171B	171B		279B	279B
27E	964F		171B2	68A		279B	279B2
27G	134C2		171B2	134C2		279B	7243B
27G	618G		171B2	171B		279B2	279B2
36B	86B		171B2	171B2		322C2	134C2
36B	737B		171C2	171C2		322C2	322C2
36B	748A		198	198A		322D3	134C2
36B	749B		198	726A		322D3	322D3
43	43A		198	7198A		322D3	322D3
43	198A		198A	198A		330	330A
43	7198A		199A	199A		330A	330A
43A	43A		199A	748A		415	8720A
45	45A		199A	7199A		451	3451A
45A	45A		199B2	199B2		451	8451A
56B2	56B2		199B2	748A		533	533
56B2	56B2		199B2	748B		618F	618F
67	67A		199B2	7199A		618G	618G
67A	67A		199B2	7199B		622C2	622C2
68	68A		206	43A		667B	667B
68	7243B		206	272A		683	726A
68	8107A		221C2	622C2		684B	748B
68A	68A		233B	233B		726A	726A

Field symbols	Publication symbol
737B	737B
748A	748A
748B	748B
749B	749B
802B	802B
802B	802B
802D	802D
802D	802D
865	865
964F	964F
3073A	3073A
3107A	3107A
3451A	3451A
7134C	7134C
7148B	7148B
7198A	7198A
7199A	7199A
7199B	7199B
7242A	7242A
7243B	7243B
8074A	8074A
8107A	8107A
8451A	8451A
8720A	8720A
M-W	M-W
W	W

Soil Identification Legend According to Alphabetical Sequence

Map Symbol	Approved Map Unit Name
8720A	Aetna silt loam, 0 to 2 percent slopes, occasionally flooded
233B	Birkbeck silt loam, 2 to 5 percent slopes
233C2	Birkbeck silt loam, 5 to 10 percent slopes, eroded
749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes
134C2	Camden silt loam, 5 to 10 percent slopes, eroded
7134C	Camden silt loam, 5 to 10 percent slopes, rarely flooded
171B	Catlin silt loam, 2 to 5 percent slopes
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded
56B2	Dana silt loam, 2 to 5 percent slopes, eroded
45A	Denny silt loam, 0 to 2 percent slopes
272A	Edgington silt loam, 0 to 2 percent slopes
198A	Elburn silt loam, 0 to 2 percent slopes
7198A	Elburn silt loam, 0 to 2 percent slopes, rarely flooded
726A	Elburn silt loam, sandy substratum, 0 to 2 percent slopes
67A	Harpster silty clay loam, 0 to 2 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes
667B	Kaneville silt loam, 2 to 5 percent slopes
7242A	Kendall silt loam, 0 to 2 percent slopes, rarely flooded
17A	Keomah silt loam, 0 to 2 percent slopes
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
8451A	Lawson silt loam, 0 to 2 percent slopes, occasionally flooded
964F	Miami and Hennepin Soils, 18 to 35 percent slopes
27D2	Miami silt loam, 10 to 18 percent slopes, eroded
M-W	Miscellaneous water
802D	Orthents, loamy, 2 to 20 percent slopes
802B	Orthents, loamy, undulating
86B	Osco silt loam, 2 to 5 percent slopes
330A	Peotone silty clay loam, 0 to 2 percent slopes
865	Pits, gravel
199A	Plano silt loam, 0 to 2 percent slopes
7199A	Plano silt loam, 0 to 2 percent slopes, rarely flooded
199B2	Plano silt loam, 2 to 5 percent slopes, eroded
7199B	Plano silt loam, 2 to 5 percent slopes, rarely flooded
748A	Plano silt loam, sandy substratum, 0 to 2 percent slopes
748B	Plano silt loam, sandy substratum, 2 to 5 percent slopes
148B2	Proctor silt loam, 2 to 5 percent slopes, eroded
7148B	Proctor silt loam, 2 to 5 percent slopes, rarely flooded
8074A	Radford silt loam, 0 to 2 percent slopes, occasionally flooded
3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
279B	Rozetta silt loam, 2 to 5 percent slopes
279B2	Rozetta silt loam, 2 to 5 percent slopes, eroded
322C2	Russell silt loam, 5 to 10 percent slopes, eroded
322D3	Russell silty clay loam, 10 to 18 percent slopes, severely eroded
68A	Sable silty clay loam, 0 to 2 percent slopes

Map Symbol	Approved Map Unit Name
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded
618F	Senachwine silt loam, 18 to 35 percent slopes
618G	Senachwine silt loam, 35 to 60 percent slopes
138A	Shiloh silty clay loam, 0 to 2 percent slopes
243B	St. Charles silt loam, 2 to 5 percent slopes
7243B	St. Charles silt loam, 2 to 5 percent slopes, rarely flooded
737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes
533	Urban land
W	Water
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded

Soil Identification Legend According to Numerical Sequence

Map Symbol	Approved Map Unit Name
17A	Keomah silt loam, 0 to 2 percent slopes
27D2	Miami silt loam, 10 to 18 percent slopes, eroded
43A	Ipava silt loam, 0 to 2 percent slopes
45A	Denny silt loam, 0 to 2 percent slopes
56B2	Dana silt loam, 2 to 5 percent slopes, eroded
67A	Harpster silty clay loam, 0 to 2 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes
86B	Osco silt loam, 2 to 5 percent slopes
134C2	Camden silt loam, 5 to 10 percent slopes, eroded
138A	Shiloh silty clay loam, 0 to 2 percent slopes
148B2	Proctor silt loam, 2 to 5 percent slopes, eroded
171B	Catlin silt loam, 2 to 5 percent slopes
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded
198A	Elburn silt loam, 0 to 2 percent slopes
199A	Plano silt loam, 0 to 2 percent slopes
199B2	Plano silt loam, 2 to 5 percent slopes, eroded
233B	Birkbeck silt loam, 2 to 5 percent slopes
233C2	Birkbeck silt loam, 5 to 10 percent slopes, eroded
243B	St. Charles silt loam, 2 to 5 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes
272A	Edgington silt loam, 0 to 2 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes
279B2	Rozetta silt loam, 2 to 5 percent slopes, eroded
322C2	Russell silt loam, 5 to 10 percent slopes, eroded
322D3	Russell silty clay loam, 10 to 18 percent slopes, severely eroded
330A	Peotone silty clay loam, 0 to 2 percent slopes
533	Urban land
618F	Senachwine silt loam, 18 to 35 percent slopes
618G	Senachwine silt loam, 35 to 60 percent slopes
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
667B	Kaneville silt loam, 2 to 5 percent slopes
726A	Elburn silt loam, sandy substratum, 0 to 2 percent slopes
737B	Tama silt loam, very deep to sand, 2 to 5 percent slopes
748A	Plano silt loam, sandy substratum, 0 to 2 percent slopes
748B	Plano silt loam, sandy substratum, 2 to 5 percent slopes
749B	Buckhart silt loam, till substratum, 2 to 5 percent slopes
802B	Orthents, loamy, undulating
802D	Orthents, loamy, 2 to 20 percent slopes
865	Pits, gravel
964F	Miami and Hennepin Soils, 18 to 35 percent slopes
3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
7134C	Camden silt loam, 5 to 10 percent slopes, rarely flooded

Map Symbol	Approved Map Unit Name
7148B	Proctor silt loam, 2 to 5 percent slopes, rarely flooded
7198A	Elburn silt loam, 0 to 2 percent slopes, rarely flooded
7199A	Plano silt loam, 0 to 2 percent slopes, rarely flooded
7199B	Plano silt loam, 2 to 5 percent slopes, rarely flooded
7242A	Kendall silt loam, 0 to 2 percent slopes, rarely flooded
7243B	St. Charles silt loam, 2 to 5 percent slopes, rarely flooded
8074A	Radford silt loam, 0 to 2 percent slopes, occasionally flooded
8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded
8451A	Lawson silt loam, 0 to 2 percent slopes, occasionally flooded
8720A	Aetna silt loam, 0 to 2 percent slopes, occasionally flooded
M-W	Miscellaneous water
W	Water

CLASSIFICATION OF PEDONS
SAMPLED FOR LABORATORY ANALYSIS
DE WITT COUNTY, ILLINOIS
A SUBSET OF MLRA's 108A and 108B

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

Sampled As	Lab Number	Publication Symbol	Publication Name or Component Name
Catlin	84IL039001	171B2	Catlin
Dana	85IL039002	56B2	Dana
Ipava	83IL039015	43A	Ipava
Miami	83IL039008	618G	Senachwine
Russell	83IL039018	322C2	Russell

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

Sampled As	Lab Number	Publication Symbol	Publication Name or Component Name
Rozetta	83IL-039-1	279B2	Rozetta
Russell	83IL-039-2	233B	Birkbeck
Russell	83IL-039-3	233B	Birkbeck
Keomah	83IL-039-4	17A	Stronghurst*
Dodge	83IL-039-5	27D2	Dodge*
Peotone	83Il-039-22	138A	Shiloh
Proctor	83IL-039-23	148B2	Barrington*
Sable	83IL-039-25	68A	Sable
Sable	83IL-039-28	68A	Sable
Dana	84IL-039-7	56B2	Dana
Ipava	83IL-039-51	43A	Ipava
Miami	84IL-039-1	618G	Senachwine

*inclusion in map unit

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

Sampled As	Lab Number	Publication Symbol	Publication Name or Component Name
Catlin	84IL-039-11	171B2	Catlin
Dana	85IL-039-2	56B2	Dana
Ipava	83IL-039-15	43A	Ipava
Miami	83Il-039-8	618G	Senachwine
Russell	83IL-039-18	322C2	Russell

*inclusion in map unit

d. Other Data from the Pedology Laboratory, University of Illinois, not to be published in the national pedon data file.

Sampled As	Lab Number	Publication Symbol	Publication Name or Component Name
Catlin	84IL-039-35	171B2	Catlin
Catlin	84IL-039-46	171B2	Catlin
Catlin	83IL-039-14	171C2	Catlin
Catlin	84IL-039-36	171B2	Catlin
Ipava	83IL-039-50	43A	Muscatine*
Plano	84IL-039-3	199B2	Plano
Ross	84IL-039-21	3073A	Ross
Tama	84IL-039-45	749B	Buckhart
Tama	85IL-039-1	749B	Buckhart

*inclusion in map unit

Notes to accompany the
Classification and Correlation
of the Soils in
De Witt County, Illinois
Prepared by Troy Fehrenbacher

AETNA SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137 as Orion (415). Map unit 415 correlates to 8720A. 8720A DMU# 407736

BIRKBECK SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. Some areas of the 233C2 map unit may not meet series criteria for presence of carbonates within 40 to 70 inches. Map unit 233B (1 to 4 percent slopes) correlates to 233B (2 to 5 percent slopes). Map unit 233C2 (4 to 8 percent slopes) correlates to 233C2 (5 to 10 percent slopes). 233B DMU# 153465; 233C2 DMU# 155283

BROADWELL SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. This series will be dropped from the legend and correlated to 748A and 748B. See Plano.

BUCKHART SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137 as Tama (36B). Map unit 36B (1 to 5 percent slopes) correlates to 749B (2 to 5 percent slopes) in deep to till areas. 749B DMU# 501765

CAMDEN SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. A rarely flooded phase will be added to the legend for areas that fall within FEMA boundaries. 134C2 DMU# 131428; 7134C DMU# 497309

CATLIN SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. Catlin soils on B2 slopes in De Witt County are taxadjuncts to the series due to a thinner dark colored surface layer that does not meet the criteria for thickness for a mollic epipedon and contain 2 chroma redox depletions within 30 inches. Catlin soils on C2 slopes in De Witt County are taxadjuncts to the series due to a thinner dark colored surface layer that does not meet the criteria for thickness for a mollic epipedon. These soils are Aquollic Hapludalfs and Mollic Oxyaquic Hapludalfs, respectively. Some areas of the 171C2 map unit may not meet series criteria for presence of carbonates within 40 to 60 inches. 171B has been added to the legend to join adjacent counties. 171B DMU# 407839; 171B2 DMU# 151277; 171C2 DMU# 142720

DANA SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137.
Dana in De Witt County is a taxadjunct to the series due to a thinner dark colored surface layer that does not meet the criteria for thickness for a mollic epipedon. The soils are Mollic Oxyaquic Hapludalfs. Some areas of the map unit lack 2 chroma redox depletions within 40 inches. Map unit 56B2 (2 to 6 percent slopes) correlates to 56B2 (2 to 5 percent slopes). 56B2 DMU# 153476

DENNY SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. The upper part of the E horizon is less acid than typical. 45A DMU# 139402

EDGINGTON SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137 as Thorp (206). Edgington was brought in to join McLean County. After further investigation it was noted that the Thorp soils did not contain as much sand in the lower part of the profile as is required by the series criteria. Map unit 206 correlates to 272A. 272A DMU# 151303

ELBURN SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. A rarely flooded phase will be added to the legend for areas that fall within FEMA boundaries. A sandy substratum phase will be added to the legend to replace Lawndale. 198A DMU# 399244; 7198A DMU# 497304; 726A DMU# 497548

HARPSTER SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. 67A DMU# 142575

HARTSBURG SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. 244A DMU# 153413

HENNEPIN SERIES- This series was brought in to join McLean County as part of a complex, 964F. See Miami. 964F DMU# 400413

IPAVA SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. 43A DMU# 139401

KANEVILLE SERIES- This series was brought in to join McLean County. See St. Charles. 667B DMU# 411038

KEOMAH SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. Polygons that fall within FEMA boundaries will be correlated to 7242A. See Kendall. 17A DMU# 141750

KENDALL SERIES- Rarely flooded areas of 17A in the previous report had stratified sandy substratums. See Keomah. 7242A DMU# 156341

LAWNDALE SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. This series will be dropped from the legend and correlated to 726A. See Elburn.

LAWSON SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. A frequently flooded phase will be added to the update legend. 3451A DMU# 154674; 8451A DMU# 423929

MIAMI SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. Map unit 27D2 (10 to 15 percent slopes) correlates to 27D2 (10 to 18 percent slopes). Map unit 27E correlates to 618F. Map unit 27G correlates to 618G. Map units 27E (15 to 30 percent slopes) and 27G (30 to 50 percent slopes) also correlate to 964F (18 to 35 percent slopes), Miami-Hennepin complex, for joins with McLean County. See Senachwine. 27D2 DMU# 402821; 964F DMU# 400413

ORION SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. This series will be dropped from the legend and correlated to 8720A. See Aetna.

ORTHENTS SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. 802B DMU# 153466; 8702D DMU# 443076

OSCO SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137 as Tama (36B). Map unit 36B (1 to 5 percent slopes) correlates to 86B (2 to 5 percent slopes) in very deep loess areas. 86B DMU# 141764

PARR SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. This series will be dropped from the legend and correlated to 622C2. See Wyanet.

PEOTONE SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. 330A DMU# 154675

PITS, GRAVEL- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. 865 DMU# 153492

PLANO SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. The soils in map unit 199B2 in De Witt County are taxadjuncts to the series due to a thinner dark colored surface layer that does not meet the criteria for thickness for a mollic epipedon. These soils are Mollic Hapludalfs. A rarely flooded phase will be added to the legend for areas that fall within FEMA boundaries. A sandy substratum phase will be added to the legend to replace Broadwell. 199A DMU# 151285; 199B2 DMU# 151287; 7199A DMU# 497302; 7199B DMU# 497303; 748A DMU# 489091; 748B DMU# 497549

PROCTOR SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. Proctor in De Witt County is a taxadjunct to the series due to a thinner dark colored surface layer that does not meet the criteria for thickness for a mollic epipedon. The soils are Mollic Hapludalfs. Map unit 148B2 (2 to 6 percent slopes) correlates to 148B2 (2 to 5 percent slopes). A rarely flooded phase will be added to the legend for areas that fall within FEMA boundaries. 148B2 DMU# 408767; 7148B DMU# 497313

RADFORD SERIES- This series was brought in to join McLean County. 8074A DMU# 151364

ROSS SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. Ross in De Witt County lacks carbonates within 24 to 45 inches. Some map units contain coarse-loamy areas that are outside the series criteria. This map unit will be correlated from occasionally flooded to frequently flooded. 3073A DMU# 154980

ROZETTA SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. Rozetta on a B slope in De Witt County may contain 2 chroma redox depletions within 40 inches of the soil surface. Piezometer data indicates a four to six foot water table. The argillic horizon in some map units comes in shallower than 42 inches which is required by series criteria. Map unit 279B (1 to 5 percent slopes) correlates to 279B (2 to 5 percent slopes). A deep to till phase will be recognized; 279B2. Rozetta soils on a B2 slope in De Witt County are taxadjuncts due to 2 chroma iron depletions within 40 inches of the soil surface. These depletions are due to till perching water. The soils are Oxyaquic Hapludalfs. 279B will correlate to 279B2. Polygons that fall within FEMA boundaries are deep to stratified outwash and will be correlated to 7243B. See St. Charles. 279B DMU# 141790; 279B2 DMU# 155308

RUSSELL SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. Russell in De Witt County does not contain a densic 2C horizon. Some map units do not contain carbonates within 40 to 60 inches. These soils tend to be more acid in the 2BC and 2C horizon than typical for the series. Map unit 322D3 (10 to 15 percent slopes) correlates to 322D3 (10 to 18 percent slopes). 322C2 DMU# 153457; 322D3 DMU# 497192

SABLE SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. 68A DMU# 155134

SAWMILL SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. A frequently flooded phase will be added to the update legend. 3107A DMU# 153474; 8107A DMU# 155363

SENACHWINE- Previously correlated in Illinois Agricultural Experiment Station Report No. 137 as Miami (27E and 27G). Map unit 27E (15 to 30 percent slopes) correlates to 618F (18 to 35 percent slopes). Map unit 27G (30 to 50 percent slopes) correlates to 618G (35 to 50 percent slopes). 618F DMU# 153461; 618G DMU# 153399

SHILOH SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. 138A DMU# 464247

ST. CHARLES SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. Map unit 243B (1 to 5 percent slopes) correlates to 243B (2 to 5 percent slopes). A rarely flooded phase will be added to the legend for areas that fall within FEMA boundaries. Some polygons will be correlated to 667B to join with McLean County. 243B DMU# 140161; 7243B DMU# 497306

TAMA SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. This series will be dropped from the legend as 36B and will be correlated to a deep to sand phase. This series will also be correlated to 749B and 86B. See Buckhart and Osco, respectively. 737B DMU# 498058

THORP SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. This series will be dropped from legend and correlated to 272A. See Edgington.

URBAN LAND- Previously correlated in Illinois Agricultural Experiment Station Report No. 137. 533 DMU# 151935

WYANET SERIES- Previously correlated in Illinois Agricultural Experiment Station Report No. 137 as Parr (221C2). Parr soils in De Witt County were originally mapped as well drained soils. Parr has since been reclassified to represent moderately well drained soils and Wyanet now represents the well drained soils. Wyanet in De Witt County is a taxadjunct to the series due to a thinner dark colored surface layer that does not meet the criteria for thickness for a mollic epipedon. The soils are Mollic Hapludalfs. 622C2 DMU# 153462

Classification of the Soils

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

Soil name	Family or higher taxonomic class
Aetna	Fine-silty, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
Birkbeck	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Buckhart	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Camden	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Catlin	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
*Catlin	Fine-silty, mixed, superactive, mesic Aquollic Hapludalfs
*Catlin	Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs
*Dana	Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs
Denny	Fine, smectitic, mesic Mollic Albaqualfs
Edgington	Fine-silty, mixed, superactive, mesic Argiaquic Argialbolls
Elburn	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Harpster	Fine-silty, mixed, superactive, mesic Typic Calciaquolls
Hartsburg	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Hennepin	Fine-loamy, mixed, active, mesic Typic Eutrudepts
Ipava	Fine, smectitic, mesic Aquic Argiudolls
Kaneville	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Kendall	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Keomah	Fine, smectitic, mesic Aeric Endoaqualfs
Lawson	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Miami	Fine-loamy, mixed, active, mesic Oxyaquic Hapludalfs
Orthents, loamy	Fine-loamy, mixed, active, nonacid, mesic Aquic Udorthents
Orthents, loamy	Loamy, mesic Udorthents
Osco	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Peotone	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
Plano	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Plano	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Proctor	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Proctor	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Radford	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Ross	Fine-loamy, mixed, superactive, mesic Cumulic Hapludolls
Rozetta	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
*Rozetta	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Russell	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Sable	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Sawmill	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Senachwine	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Shiloh	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
St. Charles	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Tama	Fine-silty, mixed, superactive, mesic Typic Argiudolls
*Wyanet	Fine-loamy, mixed, active, mesic Mollic Hapludalfs

CERTIFICATION STATEMENT

The MLRA Region 11 Team Leader certifies that:

a. The fieldwork activities were completed in November 2005.

b. De Witt County joins exactly with the following update survey areas:

McLean County to the north was published in 2004.

c. De Witt County joins acceptably with the following survey areas:

Piatt County to the east was published in December, 1991.
Macon County to the south was published in April, 1990.
Logan County to the west was published in May, 1974.

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

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

e. The location of all typical pedons has been checked for correct location and for the soil delineations using that name. Not all typical pedons are located in De Witt County.

f. All typical pedons are classified according to Keys of Soil Taxonomy, ninth edition, 2003.

g. The digital soil maps will be reviewed for accuracy and consistency.

Approval Signatures and Date

/s/ /s/

Travis Neely	Date	William J. Gradle	Date
MLRA Region 11 Team Leader		State Conservationist	
USDA, NRCS		USDA, NRCS	
Indianapolis, IN 46278		Champaign, IL 61821	