

United States
Department of
Agriculture

Natural Resources
Conservation Service

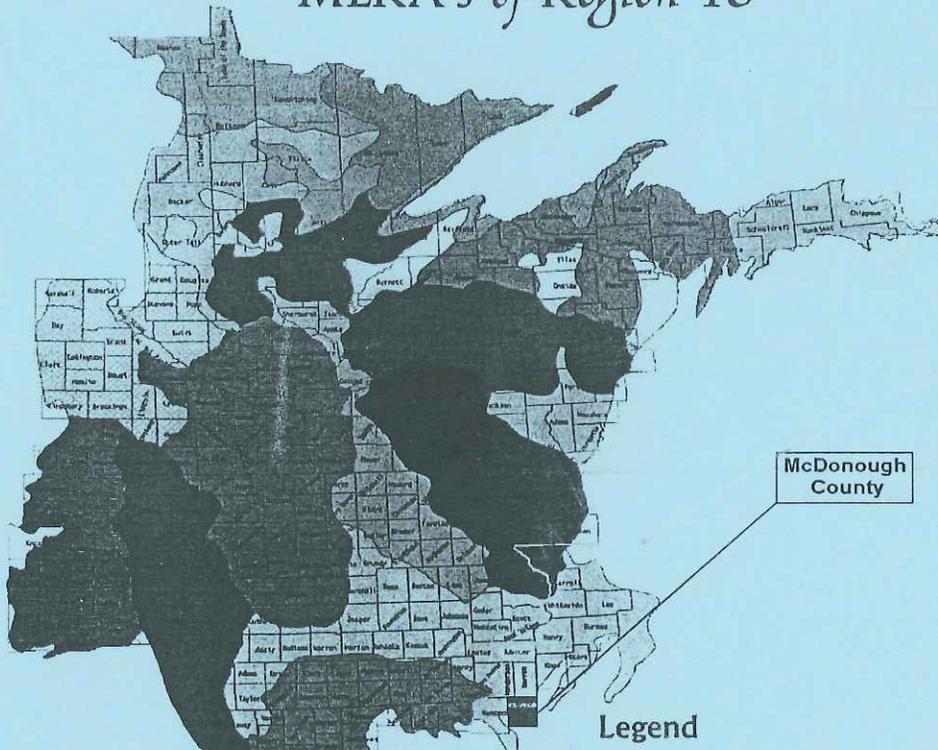
North Central Glaciated
Regional MLRA
Soil Survey Office
St. Paul, Minnesota

Classification and Correlation of Soils in McDonough County, Illinois

A Subset of MLRA 108B and 115C

June 2002

MLRA's of Region 10



Legend

- 57: Northern Minnesota Gray Drift
- 88: Northern Minnesota Glacial Lake Basins
- 90: Central Wisconsin and Minnesota Thin Loess and Till
- 91: Wisconsin and Minnesota Sandy Outwash
- 92: Superior Lake Plain
- 93: Superior Stony and Rocky Loamy Plains and Hills
- 94A: Northern Michigan and Wisconsin Sandy Drift
- 94B: Michigan Eastern Upper Peninsula Sandy Drift
- 102A: Rolling Till Prairie
- 102B: Loess Uplands and Till Plains
- 103: Central Iowa and Minnesota Till Prairies
- 104: Eastern Iowa and Minnesota Till Prairies
- 105: Northern Mississippi Valley Loess Hills
- 107: Iowa and Missouri Deep Loess Hills
- 108: Illinois and Iowa Deep Loess Hills
- 109: Iowa and Missouri Heavy Till Plain

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UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

CLASSIFICATION AND CORRELATION
OF THE SOILS OF
MCDONOUGH COUNTY, ILLINOIS
MLRA 108B & 115C
June 20, 2002

This recorrelation was prepared by Tom Neuenfeldt, Soil Specialist, on the MLRA Region 10 staff in April 2002. It was prepared as part of the update of the soil survey of McDonough County, Illinois. This update is a subset of the combined soil survey update of MLRA 108B and 115C in Illinois. The preliminary correlation was prepared by Dave Preloger, Soil Scientist (MLRA) for MLRA 108B office in Rock Falls, Illinois. Correlation of map units in this document was provided by Steve Elmer, Project Leader (MLRA) for MLRA 108B in Illinois. The Initial Review was held in January of 1999; and a Progress Soil Survey Review was held in November of 2000. Both reviews were held at Rock Falls, Illinois. Discussions and decisions relating to the final correlation were done via telephone conversations and email, in lieu of a final correlation conference. Decisions were based on pedon data, soil correlation samples, soil maps, survey area field notes, and field review reports. Prior to publishing this correlation a draft of this correlation was critically reviewed by Steve Elmer, Dave Preloger, and John Doll, Soil Scientist, NRCS, Champaign, Illinois. The final draft of this correlation was prepared by Tom Neuenfeldt, Soil Specialist, on the MLRA Region 10 staff in June 2002.

Headnote for Detailed Soil Survey Legend:

Map symbols consist of a combination of numbers and letters. The initial numbers represent the kind of soil. A capital letter following those numbers indicates the class of slope. A final number of 2 following the slope letter indicates that the soil is moderately eroded, and 3 indicates that it is severely eroded. Map symbols without a slope class letter are miscellaneous units.

Soil Correlation Of
McDonough County, Illinois

Field symbols	Field map unit name	Publication symbol	Approved map unit name
6C2	Fishhook silt loam, 5 to 10 percent slopes, eroded	6C2	Fishhook silt loam, 5 to 10 percent slopes, eroded
6D2	Fishhook silt loam, 10 to 18 percent slopes, eroded	6D2	Fishhook silt loam, 10 to 18 percent slopes, eroded
7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded	7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded
7D3	Atlas silty clay loam, 10 to 18 percent slopes, severely eroded	7D3	Atlas silty clay loam, 10 to 18 percent slopes, severely eroded
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded	8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8F	Hickory silt loam, 18 to 35 percent slopes	8F	Hickory silt loam, 18 to 35 percent slopes
8G	Hickory silt loam, 35 to 60 percent slopes	8G	Hickory silt loam, 35 to 60 percent slopes
16 16A	Rushville silt loam Rushville silt loam, 0 to 2 percent slopes	16A	Rushville silt loam, 0 to 2 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes	17A	Keomah silt loam, 0 to 2 percent slopes
17B	Keomah silt loam, 2 to 5 percent slopes	17B	Keomah silt loam, 2 to 5 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes	43A	Ipava silt loam, 0 to 2 percent slopes
43B	Ipava silt loam, 2 to 5 percent slopes	43B	Ipava silt loam, 2 to 5 percent slopes
43B 43B2	Ipava silt loam, 2 to 5 percent slopes Ipava silt loam, 2 to 5 percent slopes, eroded	43B2	Ipava silt loam, 2 to 5 percent slopes, eroded
45 45A	Denny silt loam Denny silt loam, 0 to 2 percent slopes	45A	Denny silt loam, 0 to 2 percent slopes
50 50A	Viriden silty clay loam Viriden silty clay loam, 0 to 2 percent slopes	50A	Viriden silty clay loam, 0 to 2 percent slopes
41A 51A	Muscatine silt loam, 0 to 2 percent slopes Muscatune silt loam, 0 to 2 percent slopes	51A	Muscatune silt loam, 0 to 2 percent slopes
51B2 41B	Muscatune silt loam, 2 to 5 percent slopes, eroded Muscatine silt loam, 2 to 5 percent slopes	51B2	Muscatune silt loam, 2 to 5 percent slopes, eroded
61A	Atterberry silt loam, 0 to 2 percent slopes	61A	Atterberry silt loam, 0 to 2 percent slopes
68 68A	Sable silty clay loam Sable silty clay loam, 0 to 2 percent slopes	68A	Sable silty clay loam, 0 to 2 percent slopes

Soil Correlation Of
McDonough County, Illinois (continued).

Field symbols	Field map unit name	Publication symbol	Approved map unit name
36B 86B	Tama silt loam, 1 to 5 percent slopes Osco silt loam, 2 to 5 percent slopes	86B	Osco silt loam, 2 to 5 percent slopes
36B2 86B2	Tama silt loam, 2 to 5 percent slopes, eroded Osco silt loam, 2 to 5 percent slopes, eroded	86B2	Osco silt loam, 2 to 5 percent slopes, eroded
36C2 86C2	Tama silt loam, 5 to 10 percent slopes, eroded Osco silt loam, 5 to 10 percent slopes, eroded	86C2	Osco silt loam, 5 to 10 percent slopes, eroded
119C2	Elco silt loam, 5 to 10 percent slopes, eroded	119C2	Elco silt loam, 5 to 10 percent slopes, eroded
119D2	Elco silt loam, 10 to 18 percent slopes, eroded	119D2	Elco silt loam, 10 to 18 percent slopes, eroded
119E2 119E	Elco silt loam, 18 to 25 percent slopes, eroded Elco silt loam, 15 to 20 percent slopes	119E2	Elco silt loam, 18 to 25 percent slopes, eroded
249A 249	Edinburg silty clay loam, 0 to 2 percent slopes Edinburg silty clay loam	249A	Edinburg silty clay loam, 0 to 2 percent slopes
257A	Clarksdale silt loam, 0 to 2 percent slopes	257A	Clarksdale silt loam, 0 to 2 percent slopes
257B	Clarksdale silt loam, 2 to 5 percent slopes	257B	Clarksdale silt loam, 2 to 5 percent slopes
259C2	Assumption silt loam, 5 to 10 percent slopes, eroded	259C2	Assumption silt loam, 5 to 10 percent slopes, eroded
259D2 259D2	Assumption silt loam, 10 to 15 percent slopes, eroded Assumption silt loam, 10 to 18 percent slopes, eroded	259D2	Assumption silt loam, 10 to 18 percent slopes, eroded
278A	Stronghurst silt loam, 0 to 2 percent slopes	278A	Stronghurst silt loam, 0 to 2 percent slopes
278B	Stronghurst silt loam, 2 to 5 percent slopes	278B	Stronghurst silt loam, 2 to 5 percent slopes
279B 279B	Rozetta silt loam, 2 to 5 percent slopes Rozetta silt loam, 1 to 5 percent slopes	279B	Rozetta silt loam, 2 to 5 percent slopes
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded	279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded
279D2	Rozetta silt loam, 10 to 18 percent slopes, eroded	279D2	Rozetta silt loam, 10 to 18 percent slopes, eroded
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded	280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
280F	Fayette silt loam, 18 to 35 percent slopes	280F	Fayette silt loam, 18 to 35 percent slopes

Soil Correlation Of
McDonough County, Illinois (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
470C2	Keller silt loam, 5 to 10 percent slopes, eroded	470C2	Keller silt loam, 5 to 10 percent slopes, eroded
549F 549F	Marseilles silt loam, 18 to 30 percent slopes Marseilles silt loam, 18 to 35 percent slopes	549F	Marseilles silt loam, 18 to 35 percent slopes
549G 549G	Marseilles silt loam, 35 to 60 percent slopes Marseilles silt loam, 30 to 60 percent slopes	549G	Marseilles silt loam, 35 to 60 percent slopes
605C2	Ursa silt loam, 5 to 10 percent slopes, eroded	605C2	Ursa silt loam, 5 to 10 percent slopes, eroded
605D2	Ursa loam, 10 to 18 percent slopes, eroded	605D2	Ursa loam, 10 to 18 percent slopes, eroded
386B 675B	Downs silt loam, 1 to 5 percent slopes Greenbush silt loam, 2 to 5 percent slopes	675B	Greenbush silt loam, 2 to 5 percent slopes
46A 699A	Herrick silt loam, 0 to 2 percent slopes Timewell silt loam, 0 to 2 percent slopes	699A	Timewell silt loam, 0 to 2 percent slopes
799D	Arents loamy, hilly	799D	Arents loamy, hilly
802B 802B	Orthents loamy, gently sloping Orthents loamy, undulating	802B	Orthents loamy, undulating
802E 802E 869	Orthents loamy, hilly Orthents loamy, moderately steep Pits, Quarries-Orthents Complex	802E	Orthents loamy, hilly
824B 824B	Swanwick silt loam, 2 to 5 percent slopes Swanwick silt loam, 1 to 5 percent slopes	824B	Swanwick silt loam, 2 to 5 percent slopes
855A 43A 46A	Timewell and Ipava silt loams, 0 to 2 percent slopes Ipava silt loam, 0 to 2 percent slopes Herrick silt loam, 0 to 2 percent slopes	855A	Timewell and Ipava silt loams, 0 to 2 percent slopes
872B 872B	Rapatee silty clay loam, 2 to 5 percent slopes Rapatee silty clay loam, 1 to 5 percent slopes	872B	Rapatee silty clay loam, 2 to 5 percent slopes
1334	Birds silt loam, wet	1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded
1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded		
3074	Radford silt loam, frequently flooded	3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded		
3107	Sawmill silty clay loam, frequently flooded	3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded		

Soil Correlation Of
McDonough County, Illinois (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
3284	Tice silty clay loam, frequently flooded	3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded		
3333	Wakeland silt loam, frequently flooded	3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded		
3334	Birds silt loam, frequently flooded	3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded		
3451	Lawson silt loam, frequently flooded	3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded		
17A	Keomah silt loam, 0 to 2 percent slopes	9017A	Keomah silt loam, terrace, 0 to 2 percent slopes
257A	Clarksdale silt loam, 0 to 2 percent slopes		
9017A	Keomah silt loam, terrace, 0 to 2 percent slopes		
17B	Keomah silt loam, 2 to 5 percent slopes	9017B	Keomah silt loam, terrace, 2 to 5 percent slopes
257B	Clarksdale silt loam, 2 to 5 percent slopes		
9017B	Keomah silt loam, terrace, 2 to 5 percent slopes		
279B	Rozetta silt loam, 1 to 5 percent slopes	9279B	Rozetta silt loam, terrace, 2 to 5 percent slopes
386B	Downs silt loam, 1 to 5 percent slopes		
9279B	Rozetta silt loam, terrace, 2 to 5 percent slopes		
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded	9279C2	Rozetta silt loam, terrace, 5 to 10 percent slopes, eroded
9279C2	Rozetta silt loam, terrace, 5 to 10 percent slopes, eroded		
M-W	Miscellaneous Water	M-W	Miscellaneous Water
W	Water	W	Water

Series Established by this Correlation: None

Series Added to Previously Correlated Legend: Greenbush, Muscatune, Osco, and Timewell

Series Dropped from Previously Correlated Legend: Downs, Herrick, Muscatine, Tama

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

Prior Soil Survey Publication:

Prior soil survey of McDonough County, Illinois was published in 1997, United States Department of Agriculture, Soil Survey of McDonough County, Illinois (Illinois, Agricultural Experiment Station Report Number 151)

This survey update joins with soils in the region (MLRA 108) and places the soil information on USGS 7.5' Digital Ortho Quad sheets for use in future geographic information systems.

Disposition of Field Sheets:

The soil maps have been photographically reduced from a scale of 1:15,840 to a scale of 1:12000 and recompiled onto 3.75' orthophotography. Compiled maps, locator maps and field maps are in the NRCS state office in Champaign, Illinois.

Copies of a computer tape of the digital product for McDonough County will remain at the State Office, be certified for SSURGO at the Salina, KS Digitizing Unit, and be provided to the County Board as part of the cost share cooperative agreement.

Instructions for Map Compilation and Map Finishing:

Map compilation was completed by the Rock Falls MLRA staff. Digitizing was completed by the NRCS Digitizing Unit in Salina, Kansas. Digitizing will be completed by the digitizing unit staff using the soil identification legend and symbols legend in this document.

Symbols for map finishing will be those approved for SSURGO and as shown in this document.

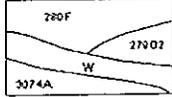
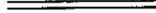
Conventional and Special Symbols Legend:

Only those symbols indicated on the on the attached NRCS-SOILS-37A (5/01) will be shown on the publication symbols legend and placed on the maps. The definition of the special symbols for escarpment, nonbedrock, and for marsh or swamp in the McDonough County Update Project are slightly modified from what is stated in Part 647 of the National Soil Survey Handbook.

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

Soil Survey Area: MCDONOUGH COUNTY,
State: ILLINOIS

Date: May 2002

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL																																																																																																																																									
SOIL SURVEY FEATURES		CULTURAL FEATURES (Optional)		HYDROGRAPHIC FEATURES (Optional)																																																																																																																																										
<p>✓ SOIL DELINEATIONS AND LABELS</p> <div style="text-align: center;">  </div> <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  Levee low  Marsh or swamp  Mine or quarry  Miscellaneous water  Perennial water  Rock outcrop  Saline spot  Sandy spot  Severely eroded spot  Seiche  Side or slip  Sodic spot  Spot 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)  Level of soil survey (table) and/or service access areas  ✓ Field sheet margins and describe  Public Land Survey System Section Boundary  ✓ Public Land Survey System Section Corner Tics  <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, town 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 (table)  Lookout tower  Oil and/or natural gas well  Other Religion (table)  School  Soil sample site (compiled only not published)  Tank (table)  Windmill  	<ul style="list-style-type: none"> Drainage end (indicates direction of flow)  Perennial stream  Intermittent stream  Unclassified stream  Perennial drainage or irrigation ditch  Intermittent drainage or irrigation ditch  Unclassified drainage or irrigation ditch  Flood pool hole  Spring  Well, artesian  Well, irrigation  																																																																																																																																												
<p>AD HOC FEATURES (Describe on back)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>LINE</th> <th>SYMBOL</th> <th>SYMBOL</th> <th>LINE</th> <th>SYMBOL</th> <th>SYMBOL</th> </tr> </thead> <tbody> <tr><td>1</td><td><</td><td>---</td><td>23</td><td></td><td>○</td></tr> <tr><td>2</td><td>II</td><td>---</td><td>24</td><td></td><td>○</td></tr> <tr><td>3</td><td>□</td><td>---</td><td>25</td><td></td><td>○</td></tr> <tr><td>4</td><td>X</td><td>✓ O S P</td><td>26</td><td></td><td>⊕</td></tr> <tr><td>5</td><td>Y</td><td>---</td><td>27</td><td></td><td>⊕</td></tr> <tr><td>6</td><td>W</td><td>---</td><td>28</td><td></td><td>⊕</td></tr> <tr><td>7</td><td>⊕</td><td>✓ C S P</td><td>29</td><td></td><td>⊕</td></tr> <tr><td>8</td><td>□</td><td>---</td><td>30</td><td></td><td>⊕</td></tr> <tr><td>9</td><td>⊕</td><td>---</td><td>31</td><td></td><td>⊕</td></tr> <tr><td>10</td><td>⊕</td><td>---</td><td>32</td><td></td><td>⊕</td></tr> <tr><td>11</td><td>⊕</td><td>---</td><td>33</td><td></td><td>⊕</td></tr> <tr><td>12</td><td>⊕</td><td>---</td><td>34</td><td></td><td>⊕</td></tr> <tr><td>13</td><td>⊕</td><td>---</td><td>35</td><td></td><td>⊕</td></tr> <tr><td>14</td><td>⊕</td><td>---</td><td>36</td><td></td><td>⊕</td></tr> <tr><td>15</td><td>⊕</td><td>---</td><td>37</td><td></td><td>⊕</td></tr> <tr><td>16</td><td>⊕</td><td>---</td><td>38</td><td></td><td>⊕</td></tr> <tr><td>17</td><td>⊕</td><td>---</td><td>39</td><td></td><td>⊕</td></tr> <tr><td>18</td><td>⊕</td><td>✓ G L A</td><td>40</td><td></td><td>⊕</td></tr> <tr><td>19</td><td>X</td><td>---</td><td>41</td><td></td><td>⊕</td></tr> <tr><td>20</td><td>⊕</td><td>---</td><td>42</td><td></td><td>⊕</td></tr> <tr><td>21</td><td>⊕</td><td>---</td><td>43</td><td></td><td>⊕</td></tr> <tr><td>22</td><td>⊕</td><td>---</td><td>44</td><td></td><td>⊕</td></tr> </tbody> </table>		LINE	SYMBOL	SYMBOL	LINE	SYMBOL	SYMBOL	1	<	---	23		○	2	II	---	24		○	3	□	---	25		○	4	X	✓ O S P	26		⊕	5	Y	---	27		⊕	6	W	---	28		⊕	7	⊕	✓ C S P	29		⊕	8	□	---	30		⊕	9	⊕	---	31		⊕	10	⊕	---	32		⊕	11	⊕	---	33		⊕	12	⊕	---	34		⊕	13	⊕	---	35		⊕	14	⊕	---	36		⊕	15	⊕	---	37		⊕	16	⊕	---	38		⊕	17	⊕	---	39		⊕	18	⊕	✓ G L A	40		⊕	19	X	---	41		⊕	20	⊕	---	42		⊕	21	⊕	---	43		⊕	22	⊕	---	44		⊕			
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DEFINITIONS OF SPECIAL FEATURES:

Label:	Name:	Major-Minor Code:	Feature Definition:
✓ DEP	Depression, closed	900-300	A shallow, saucer-shaped area slightly lower on the landscape than the surrounding area, but without a natural outlet for surface drainage. Typically 1/4 to 2 acres.
✓ ESO	Escarpment, nonbedrock	900-206	A relatively continuous and steep slope or cliff generally produced by erosion, but can be produced by faulting breaking the continuity of more gently sloping land surfaces. Exposed non-bedrock material is non-soil or very shallow, poorly developed soil.
✓ LVS	Levee	920-208	An embankment to confine or control water, especially one built along the banks of a river to prevent overflow of lowlands.
✓ MAR	Marsh or swamp	905-111	A water saturated, very poorly drained area, intermittently or permanently water-covered. Marsh areas are dominantly covered by sedges, cattails, and rushes. Swamps are dominantly covered by trees and shrubs. Typically 1/4 to 2 acres.
✓ ROC	Rock outcrop	900-311	An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map unit are shallow over bedrock. Typically 1/4 to 2 acres.
✓ SAN	Sandy spot	900-313	Surface layer with sand content greater than 75 percent in areas where the surface layer of the named soils of the surrounding map unit have less than about 25 percent sand. Typically 1/4 to 2 acres.
✓ ERO	Severely eroded spot	900-314	An area where on the average 75 percent or more of the original surface layer has been lost from accelerated erosion. Typically 1/4 to 2 acres.
✓ SLP	Short, steep slope	900-203	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
✓ SPO	Spoil area	900-304	A pile of earthy materials, either smoothed or uneven, resulting from human activity. Typically 1/4 to 2 acres.
✓ WET	Wet spot	905-330	Somewhat poorly drained to very poorly drained area that is at least 2 drainage classes wetter than the named soils in the surrounding map unit. Typically 1/4 to 2 acres.
✓ CSP	Calcareous spot	998-029	Small areas where the soil surface layer is calcareous (reacts to 1N HCl) in areas where the surface layer of the named soils do not react. Typically 1/4 to 2 acres.
✓ GLA	Glacial till spot	998-040	Areas where the surface layer is loamy glacial till. Stones are often scattered over the surface. Primarily in moderately sloping to steep mapping units having loess parent material. Includes areas where a paleosol is still present. Typically 1/4 to 2 acres.

Label:	Name:	Major-Minor Code:	Feature Definition:
✓ GSP	Gray soil spot	998-026	Areas where the surface layer is mixed with a light colored subsurface layer exposed on the surface, where the surrounding soils do not contain a light colored subsurface layer. These soils are in poorly drained depressions. Typically 1/4 to 2 acres.

Prime Farmland Map Units

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

Map symbol	Map Unit name
17A	Keomah silt loam, 0 to 2 percent slopes (Prime farmland if drained)
17B	Keomah silt loam, 2 to 5 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes
43B	Ipava silt loam, 2 to 5 percent slopes
43B2	Ipava silt loam, 2 to 5 percent slopes, eroded
45A	Denny silt loam, 0 to 2 percent slopes (Prime farmland if drained)
50A	Viriden silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
51A	Muscatune silt loam, 0 to 2 percent slopes
51B2	Muscatune silt loam, 2 to 5 percent slopes, eroded
61A	Atterberry silt loam, 0 to 2 percent slopes (Prime farmland if drained)
68A	Sable silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
86B	Oscos silt loam, 2 to 5 percent slopes
86B2	Oscos silt loam, 2 to 5 percent slopes, eroded
249A	Edinburg silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
257A	Clarksdale silt loam, 0 to 2 percent slopes (Prime farmland if drained)
257B	Clarksdale silt loam, 2 to 5 percent slopes
278A	Stronghurst silt loam, 0 to 2 percent slopes (Prime farmland if drained)
278B	Stronghurst silt loam, 2 to 5 percent slopes (Prime farmland if drained)
279B	Rozetta silt loam, 2 to 5 percent slopes
675B	Greenbush silt loam, 2 to 5 percent slopes
699A	Timewell silt loam, 0 to 2 percent slopes
824B	Swanwick silt loam, 2 to 5 percent slopes
855A	Timewell and Ipava silt loams, 0 to 2 percent slopes
872B	Rapatee silty clay loam, 2 to 5 percent slopes
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season)
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season)
3334A	Birds silt loam, 0 to 2 percent slopes (prime farmland if drained and either protected from flooding or not frequently flooded during the growing season)
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
9017A	Keomah silt loam, terrace, 0 to 2 percent slopes (Prime farmland if drained)
9017B	Keomah silt loam, terrace, 2 to 5 percent slopes
9279B	Rozetta silt loam, terrace, 2 to 5 percent slopes

Soil Mapunit Symbol Conversion Legend

Field symbols	Publication symbol
6C2	6C2
6D2	6D2
7C3	7C3
7D3	7D3
8D2	8D2
8F	8F
8G	8G
16	16A
16A	16A
17A	17A
17A	9017A
17B	17B
17B	9017B
36B	86B
36B2	86B2
36C2	86C2
41A	51A
41B	51B2
43A	43A
43A	855A
43B	43B
43B	*43B2
*43B2	*43B2
45	45A
45A	45A
46A	699A
46A	855A
50	50A
50A	50A
51A	51A
51B2	51B2
61A	61A
68	68A

Field symbols	Publication symbol
68A	68A
86B	86B
*86B2	*86B2
86C2	86C2
119C2	119C2
119D2	119D2
119E	119E2
119E2	119E2
249	249A
249A	249A
257A	257A
257A	9017A
257B	257B
257B	9017B
259C2	259C2
259D2	259D2
278A	278A
278B	278B
279B	279B
279B	9279B
279C2	279C2
279C2	9279C2
279D2	279D2
*280D2	*280D2
280F	280F
386B	675B
386B	9279B
470C2	470C2
549F	549F
549G	549G
605C2	605C2
605D2	605D2

Field symbols	Publication symbol
675B	675B
699A	699A
799D	799D
802B	802B
802E	802E
824B	824B
855A	855A
869	802E
872B	872B
1334	1334A
1334A	1334A
3074	*3074A
*3074A	*3074A
3107	3107A
3107A	3107A
3284	3284A
3284A	3284A
3333	3333A
3333A	3333A
3334	3334A
3334A	3334A
3451	3451A
3451A	3451A
*9017A	*9017A
*9017B	*9017B
*9279B	*9279B
*9279C2	*9279C2
M-W	M-W
W	M-W
W	W

* Map units added for joining other counties or due to multiple landscape positions

Soil Identification Legend According to Alphabetical Sequence

Map symbol	Map Unit Name
799D	Arents loamy, hilly
259D2	Assumption silt loam, 10 to 18 percent slopes, eroded
259C2	Assumption silt loam, 5 to 10 percent slopes, eroded
7D3	Atlas silty clay loam, 10 to 18 percent slopes, severely eroded
7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded
61A	Atterberry silt loam, 0 to 2 percent slopes
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded
1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded
257A	Clarksdale silt loam, 0 to 2 percent slopes
257B	Clarksdale silt loam, 2 to 5 percent slopes
45A	Denny silt loam, 0 to 2 percent slopes
249A	Edinburg silty clay loam, 0 to 2 percent slopes
119D2	Elco silt loam, 10 to 15 percent slopes, eroded
119E2	Elco silt loam, 18 to 25 percent slopes, eroded
119C2	Elco silt loam, 5 to 10 percent slopes, eroded
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
280F	Fayette silt loam, 18 to 35 percent slopes
6D2	Fishhook silt loam, 10 to 18 percent slopes, eroded
6C2	Fishhook silt loam, 5 to 10 percent slopes, eroded
675B	Greenbush silt loam, 2 to 5 percent slopes
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8F	Hickory silt loam, 18 to 35 percent slopes
8G	Hickory silt loam, 35 to 60 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes
43B	Ipava silt loam, 2 to 5 percent slopes
43B2	Ipava silt loam, 2 to 5 percent slopes, eroded
470C2	Keller silt loam, 5 to 10 percent slopes, eroded
17A	Keomah silt loam, 0 to 2 percent slopes
17B	Keomah silt loam, 2 to 5 percent slopes
9017A	Keomah silt loam, terrace, 0 to 2 percent slopes
9017B	Keomah silt loam, terrace, 2 to 5 percent slopes
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
549F	Marseilles silt loam, 18 to 35 percent slopes
549G	Marseilles silt loam, 35 to 60 percent slopes

Map symbol	Map Unit Name
M-W	Miscellaneous Water
51A	Muscatune silt loam, 0 to 2 percent slopes
51B2	Muscatune silt loam, 2 to 5 percent slopes, eroded
802E	Orthents loamy, hilly
802B	Orthents loamy, undulating
86B	Oscos silt loam, 2 to 5 percent slopes
86B2	Oscos silt loam, 2 to 5 percent slopes, eroded
86C2	Oscos silt loam, 5 to 10 percent slopes, eroded
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
872B	Rapatee silty clay loam, 2 to 5 percent slopes
279D2	Rozetta silt loam, 10 to 18 percent slopes, eroded
279B	Rozetta silt loam, 2 to 5 percent slopes
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded
9279B	Rozetta silt loam, terrace, 2 to 5 percent slopes
9279C2	Rozetta silt loam, terrace, 5 to 10 percent slopes, eroded
16A	Rushville silt loam, 0 to 2 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
278A	Stronghurst silt loam, 0 to 2 percent slopes
278B	Stronghurst silt loam, 2 to 5 percent slopes
824B	Swanwick silt loam, 2 to 5 percent slopes
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
855A	Timewell and Ipava silt loams, 0 to 2 percent slopes
699A	Timewell silt loam, 0 to 2 percent slopes
605D2	Ursa loam, 10 to 18 percent slopes, eroded
605C2	Ursa silt loam, 5 to 10 percent slopes, eroded
50A	Virden silty clay loam, 0 to 2 percent slopes
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
W	Water

Soil Identification Legend According to Numerical Sequence

Map symbol	Map Unit Name
6C2	Fishhook silt loam, 5 to 10 percent slopes, eroded
6D2	Fishhook silt loam, 10 to 18 percent slopes, eroded
7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded
7D3	Atlas silty clay loam, 10 to 18 percent slopes, severely eroded
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8F	Hickory silt loam, 18 to 35 percent slopes
8G	Hickory silt loam, 35 to 60 percent slopes
16A	Rushville silt loam, 0 to 2 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes
17B	Keomah silt loam, 2 to 5 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes
43B	Ipava silt loam, 2 to 5 percent slopes
43B2	Ipava silt loam, 2 to 5 percent slopes, eroded
45A	Denny silt loam, 0 to 2 percent slopes
50A	Virden silty clay loam, 0 to 2 percent slopes
51A	Muscatune silt loam, 0 to 2 percent slopes
51B2	Muscatune silt loam, 2 to 5 percent slopes, eroded
61A	Atterberry silt loam, 0 to 2 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes
86B	Oscos silt loam, 2 to 5 percent slopes
86B2	Oscos silt loam, 2 to 5 percent slopes, eroded
86C2	Oscos silt loam, 5 to 10 percent slopes, eroded
119C2	Elco silt loam, 5 to 10 percent slopes, eroded
119D2	Elco silt loam, 10 to 15 percent slopes, eroded
119E2	Elco silt loam, 18 to 25 percent slopes, eroded
249A	Edinburg silty clay loam, 0 to 2 percent slopes
257A	Clarksdale silt loam, 0 to 2 percent slopes
257B	Clarksdale silt loam, 2 to 5 percent slopes
259C2	Assumption silt loam, 5 to 10 percent slopes, eroded
259D2	Assumption silt loam, 10 to 18 percent slopes, eroded
278A	Stronghurst silt loam, 0 to 2 percent slopes
278B	Stronghurst silt loam, 2 to 5 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded

Map symbol	Map Unit Name
279D2	Rozetta silt loam, 10 to 18 percent slopes, eroded
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
280F	Fayette silt loam, 18 to 35 percent slopes
470C2	Keller silt loam, 5 to 10 percent slopes, eroded
549F	Marseilles silt loam, 18 to 35 percent slopes
549G	Marseilles silt loam, 35 to 60 percent slopes
605C2	Ursa silt loam, 5 to 10 percent slopes, eroded
605D2	Ursa loam, 10 to 18 percent slopes, eroded
675B	Greenbush silt loam, 2 to 5 percent slopes
699A	Timewell silt loam, 0 to 2 percent slopes
799D	Arents loamy, hilly
802B	Orthents loamy, undulating
802E	Orthents loamy, hilly
824B	Swanwick silt loam, 2 to 5 percent slopes
855A	Timewell and Ipava silt loams, 0 to 2 percent slopes
872B	Rapatee silty clay loam, 2 to 5 percent slopes
1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
9017A	Keomah silt loam, terrace, 0 to 2 percent slopes
9017B	Keomah silt loam, terrace, 2 to 5 percent slopes
9279B	Rozetta silt loam, terrace, 2 to 5 percent slopes
9279C2	Rozetta silt loam, terrace, 5 to 10 percent slopes, eroded
M-W	Miscellaneous Water
W	Water

Pedons sampled for laboratory analysis

The classification of pedons sampled for laboratory analysis for McDonough County are not included in this document. Information relating to sampling and analysis of soils for this update are archived at the University of Illinois, Department of Natural Resources and Environmental Sciences, Urbana, Illinois 61801 and the National Soil Survey Laboratory, Lincoln, Nebraska.

Notes to Accompany the
Classification and Correlation of
the Soils of McDonough County, Illinois
by
Dave Preloger and Steve Elmer
April 10, 2002

A table showing the component name, map symbol, soil name, DMU ID, and the OSD or MLRA representative pedon number is at the end of these notes.

ARENTS

Map unit 799D -- Arents loamy, hilly is added to this legend for sloping "reclaimed" soils in surface mined areas in the southern part of the county. This unit will also be used in the update of Schuyler County. Upon further investigation these soils might become an established series.

ASSUMPTION SERIES

The soils in map units 259C2 and 259D2 are taxadjuncts to the Assumption series because they have thinner dark colored surface layers than is allowed for the series. These differences, however, do not significantly affect use and management. These soils classify as: *Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs*.

ATLAS SERIES

ATTERBERRY SERIES

BIRDS SERIES

CLARKSDALE SERIES

DENNY SERIES

The typical pedon for the official series description is being relocated from Jersey County, Illinois to McDonough County, Illinois as the site in McDonough County is a better example of the central concept of the series.

DOWNS SERIES (Delete)

These soils were predominantly mapped in this survey area with a seasonally saturated zone within 4 to 6 feet of the surface and are correlated to the Greenbush series.

EDINBURG SERIES

Map units of 249A were mapped on large upland flats (Atlas sheets #18 & #26) in Spring Lake Watershed Project. Most Edinburg soils have been mapped in depressional areas of upland summits. Edinburg map units in the Spring Lake watershed will need to be field checked.

ELCO SERIES

Map units 119E were looked at on the initial review (AS# 69); many of them mapped in areas previously cropped. These areas will be reviewed and changed to map units 119D2 as appropriate. Areas that are uncultivated or in trees will be retained as map units 119E2.

FAYETTE SERIES

These areas are added to the legend for joining with Hancock County. Rozetta (map unit 279D2) was mapped throughout McDonough County because of the shallower depth to low chroma redox features. Field examination of these map units may need to be completed when Hancock County is updated.

FISHHOOK SERIES

GREENBUSH SERIES (Add)

This series was established in Warren County, Illinois to replace the Downs series with a seasonally saturated zone within 4 to 6 feet of the surface.

HERRICK SERIES (Delete)

Herrick soils in western Illinois have been recorrelated to the Timewell Series to reflect the cool-mesic temperature regime. This reflects the decisions made in recent updates of MLRA 115C and the southern section of MLRA 108 south of the Illinois River. Herrick soils will be mapped in the warm-mesic areas of central and southern Illinois. (see Ipava and Timewell notes)

HICKORY SERIES

Map units of 8D2 had a loam surface texture in McDonough County which has been recorrelated to map units of 8D2 - Hickory silt loam, 10 to 18 percent slopes, eroded. This was decided during the (1/24/01) Knox County Legend Assistance, and after a review of the soil maps, pedon descriptions and supporting documentation.

IPAVA SERIES

Map units of 43A that are in association with timbered and transitional soils were examined during this update. Four transects were done in areas where both Ipava and Herrick soils had been mapped side by side. These transects showed incipient E horizons in the Ipava map units 40 to 60 percent of the time. These areas will be correlated to an undifferentiated map units of 855A - Timewell and Ipava soils, 0 to 2 percent slopes. This correlation will be limited to areas south and west of Macomb on broad interfluves between the East Fork of the Lamoine River and the Hancock and Schuyler County boundaries.

Map units of 43B were examined across the county during the initial field review. Descriptions on file revealed that many delineations were moderately eroded. Examination of the original field sheets showed that Ipava mapped on B slope adjacent to water-courses was mapped as 43B2 during the previous survey. With this update the 43B map units will be separated from the 43B2 map units and the appropriate soil lines added.

The soils in map units 43B2 are taxadjuncts (refer to classification table) to the series because they have thinner dark colored surface layers than is allowed for the series. These differences, however, do not significantly affect use and management. These soils classify as: *Fine, smectitic, mesic Aquollic Hapludalfs*.

KELLER SERIES

The soils in map units 470C2 are taxadjuncts (refer to classification table) to the series because they have thinner dark colored surface layers than is allowed for the series. These differences, however, do not significantly affect use and management.

KEOMAH SERIES

Map units 17A and 17B were recorrelated to multiple phases or series based on differences in landscape, position, parent materials, or elevations. Refer to November 1998 'Warren County Quality Assurance Review Report'.

LAWSON SERIES

MARSEILLES SERIES

MUSCATINE SERIES (Delete)

Previous lab data results show that these soils in McDonough County did not have an argillic horizon as per the concept of the series. These soils classify as fine-silty, mixed, superactive, mesic, Aquic Hapludolls. Elsewhere in MLRA 108B, this series has been recorrelated to the Muscatine series containing an argillic horizon.

This series in McDonough County will be correlated to the Muscatine Series for consistency within the MLRA.

Map units of 41B were examined across the county during the initial review. Descriptions on file revealed that much of this map unit was moderately eroded, much like Ipava 43B map units. Examination of the original field sheets showed that Muscatine mapped on B slope adjacent to water-courses was mapped as 41B2 during the survey. With this update the 41B map units will be correlated to Muscatine 51B2 map units. Unlike the Ipava situation all of the Muscatine was mapped adjacent to drainageways.

MUSCATUNE SERIES (Add)

This series replaces the Muscatine series, because of the presence of an argillic horizon in most of the counties of MLRA 108B. (see notes on Muscatine Series). Hancock County pedon #88IL-067-039 represents map unit 51B2 - Muscatune silt loam, 2 to 5 percent slopes, eroded.

The soils in map units 51B2 are taxadjuncts (refer to classification table) to the series because they have thinner dark colored surface layers than is allowed for the series. These differences, however, do not significantly affect use and management. These soils classify as: *Fine-silty, mixed, superactive, mesic Aquollic Hapludalfs*

ORTHENTS

Various Miscellaneous Land Types are correlated to Orthents. Land fills are included in both 802B and 802E. Clay pits are included with 802E.

OSCO SERIES (Add)

The 1991 Correlation Document notes on the Tama series described redoximorphic features higher in the B horizon than was defined for the Tama series.

The Osco series replaces the Tama series that contain these redox features. They have a seasonally saturated zone within 4 to 6 feet of the surface. This is consistent with recent correlation decisions made in MLRA 108B updates. The soils in map units 86B2 and 86C2 are taxadjuncts (refer to

classification table) to the series because they have a thinner dark colored surface layer than is allowed for the series. These differences, however, do not significantly affect use and management. These soils classify as: *Fine-silty, mixed, superactive, mesic Mollic Hapludalfs*.

RADFORD SERIES

RAPATEE SERIES

Slope phases of map units 872B have been changed from 1 to 5 percent to 2 to 5 percent for consistency within MLRAs 108B and 115C.

ROZETTA SERIES

Map units 279B and 279C2 were recorrelated to multiple phases or series based on differences in landscape, position, parent materials, or elevations. Refer to November 1998 'Warren County Quality Assurance Review Report'.

RUSHVILLE SERIES

SABLE SERIES

SAWMILL SERIES

STRONGHURST SERIES

SWANWICK SERIES

Slope phases of map units have been changed from 1 to 5 percent to 2 to 5 percent for consistency within MLRAs 108B and 115C.

TAMA SERIES (delete)

All Tama map units in this survey area are recorrelated to the Osco Series.

TICE SERIES

The January 1991 Correlation Document of McDonough County stated that Tice soils had lower pH values than were defined for the series.

TIMEWELL SERIES (Add)

These soils replace the Herrick soils in western Illinois -- the cool-mesic temperature area in Illinois. Herrick soils will continue to be mapped in the warm-mesic areas of central and southern Illinois. Map unit 699A is correlated as a consociation in areas where it is not mapped adjacent to the Ipava map unit 43A.

Map units of 43A (Ipava Soils) that are in association with timbered and transitional soils were examined during this update. Four transects were done in areas where both Ipava and Herrick soils had been mapped side by side. These transects showed incipient E horizons in the Ipava map units between 40 to 60 percent of the time.

These areas are correlated to an undifferentiated map units of 855A - Timewell and Ipava silt loams, 0 to 2 percent slopes. This correlation will be limited to areas south and west of Macomb on the broad interfluves between the East Fork of the Lamoine River and the Hancock and Schuyler County boundaries.

URSA SERIES
VIRDEN SERIES
WAKELAND SERIES

Soil Legend, Data Map Unit ID, and Typical/Representative Pedons in McDonough County, Illinois

Component Name	Map symbol	Map Unit name	DMUID	OSD Pedon Number	MLRA Pedon Number
ARENDS	799D	Arends loamy, hilly	427730		
ASSUMPTION	259D2	Assumption silt loam, 10 to 18 percent slopes eroded	152,334	79IL-073-113	79IL-073-113
	259C2	Assumption silt loam, 5 to 10 percent slopes, eroded	140,162		
ATLAS	7D3	Atlas silty clay loam, 10 to 18 percent slopes, severely eroded	140,143	88IL-187-049	88IL-187-049
	7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded	140,142		
ATTERBERRY	61A	Atterberry silt loam, 0 to 2 percent slopes	151,244		83IL-011-108
BIRDS	3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded	405,127		87-109-061
	1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded	142,716		
CLARKSDALE	257A	Clarksdale silt loam, 0 to 2 percent slopes	141,777	ADAMS CO.	ADAMS CO.
	257B	Clarksdale silt loam, 2 to 5 percent slopes	141,778		
DENNY	45A	Denny silt loam, 0 to 2 percent slopes	140,148	86IL-109-017	86IL-109-017
EDINBURG	249A	Edinburg silty clay loam, 0 to 2 percent slopes	154,978	SANGAMON CO.	
ELCO	119D2	Elco silt loam, 10 to 18 percent slopes, eroded	155,289		86IL-187-073
	119E2	Elco silt loam, 18 to 25 percent slopes, eroded	405,136		
	119C2	Elco silt loam, 5 to 10 percent slopes, eroded	131,431		
FAYETTE	280D2	Fayette silt loam, 10 to 18 percent slopes, eroded	140,168		87IL-187-018
FISHHOOK	6D2	Fishhook silt loam, 10 to 18 percent slopes, eroded	141,742		95IL-001-009
	6C2	Fishhook silt loam, 5 to 10 percent slopes, eroded	141,740		

Component Name	Map symbol	Map Unit name	DMUID	OSD Pedon Number	MLRA Pedon Number
GREENBUSH	675B	Greenbush silt loam, 2 to 5 percent slopes	152,601	86IL-187-078	86IL-187-078
HICKORY	8D2	Hickory silt loam, 10 to 18 percent slopes, eroded	155,589		85IL-011-020
	8F	Hickory silt loam, 18 to 35 percent slopes	141,747		
	8G	Hickory silt loam, 35 to 60 percent slopes	141,748		
IPAVA	43A	Ipava silt loam, 0 to 2 percent slopes	140,147	78IL-095-016	78IL-095-016
	43B	Ipava silt loam, 2 to 5 percent slopes	155,397		
	43B2	Ipava silt loam, 2 to 5 percent slopes, eroded	405,126		88IL-067-15
KELLER	470C2	Keller silt loam, 5 to 10 percent slopes, eroded	141,812		
KEOMAH	17A	Keomah silt loam, 0 to 2 percent slopes	141,750		95IL-001-023
	17B	Keomah silt loam, 2 to 5 percent slopes	141,751		
	9017A	Keomah silt loam, terrace, 0 to 2 percent slopes	152,948		
	9017B	Keomah silt loam, terrace, 2 to 5 percent slopes	426,517		
LAWSON	3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded	141,801		84IL-011-012
MARSEILLES	549F	Marseilles silt loam, 18 to 35 percent slopes	152,596	85IL-011-030	85IL-011-030
	549G	Marseilles silt loam, 35 to 60 percent slopes	152,597		
MISC WATER	M-W	Miscellaneous Water	405,164		
MUSCATUNE	51A	Muscatune silt loam, 0 to 2 percent slopes	142,698		86IL-187-100
	51B2	Muscatune silt loam, 2 to 5 percent slopes, eroded	406,687		88IL-067-039
ORTHENTS	802E	Orthents loamy, hilly	156,031		84IL-011-086
	802B	Orthents loamy, undulating	155,319		
OSCO	86B	Oscosilt loam, 2 to 5 percent slopes	141,764		
	86B2	Oscosilt loam, 2 to 5 percent slopes, eroded	151,250		
	86C2	Oscosilt loam, 5 to 10 percent slopes, eroded	142,706		
RADFORD	3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded	155,599		83IL-011-049

Component Name	Map symbol	Map Unit name	DMUID	OSD Pedon Number	MLRA Pedon Number
RAPATEE	872B	Rapatee silty clay loam, 2 to 5 percent slopes	140,202		
ROZETTA	279B	Rozetta silt loam, 2 to 5 percent slopes	141,790	96IL-177-012	96IL-177-012
	279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded	140,166		
	9279B	Rozetta silt loam, terrace, 2 to 5 percent slopes	152,950		
	9279C2	Rozetta silt loam, terrace, 5 to 10 percent slopes, eroded	140,211		
RUSHVILLE	16A	Rushville silt loam, 0 to 2 percent slopes	141,749		
SABLÉ	68A	Sablé silty clay loam, 0 to 2 percent slopes	140,149	57IL-187-001	57IL-187-001
SAWMILL	3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded	140,173	96IL-167-018	96IL-167-018
STRONGHURST	278A	Stronghurst silt loam, 0 to 2 percent slopes	151,307		82IL-011-072
	278B	Stronghurst silt loam, 2 to 5 percent slopes	405,131		
SWANWICK	824B	Swanwick silt loam, 2 to 5 percent slopes	405,121		
TICE	3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded	140,174		96IL-001-060
TIMEWELL	855A	Timewell and Ipava silt loams, 0 to 2 percent slopes	141,868		
	699A	Timewell silt loam, 0 to 2 percent slopes	153,691		
URSA	605D2	Ursa loam, 10 to 18 percent slopes, eroded	141,847		
	605C2	Ursa silt loam, 5 to 10 percent slopes, eroded	405,128		
VIRDEN	50A	Virden silty clay loam, 0 to 2 percent slopes	152,851		
WAKELAND	3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded	142,112		
WATER	W	Water	155,171		

Classification of the Soils McDonough County, Illinois

A single asterisk in the first column indicates that the component in all map units is a taxadjunct to the series. A double asterisk indicates that only some map units have a component that is a taxadjunct to the series. See the Notes to Accompany (above) for a description of those characteristics that are outside the range of the series.

Soil name	Family or higher taxonomic class
Arents	Fine-loamy, mixed, active, nonacid, mesic Alfic Udarents <u>1/</u>
*Assumption	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Atlas	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Atterberry	Fine-silty, mixed, superactive, mesic Udollic Endoaqualfs
Birds	Fine-silty, mixed, superactive, nonacid, mesic Typic Fluvaquents
Clarksdale	Fine, smectitic, mesic Udollic Endoaqualfs
Denny	Fine, smectitic, mesic Mollic Albaqualfs
Edinburg	Fine, smectitic, mesic Vertic Argiaquolls
Elco	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Fayette	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Fishhook	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Greenbush	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Hickory	Fine-loamy, mixed, active, mesic Typic Hapludalfs
**Ipava	Fine, smectitic, mesic Aquic Argiudolls
*Keller	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Keomah	Fine, smectitic, mesic Aeric Endoaqualfs
Lawson	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Marseilles	Fine-silty, mixed, active, mesic Typic Hapludalfs
**Muscatune	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Orthents	Fine-loamy, mixed, active, nonacid, mesic Typic Udorthents <u>1/</u>
**Osco	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Radford	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Rapatee	Fine-silty, mixed, superactive, nonacid, mesic Mollic Udarents
Rozetta	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Rushville	Fine, smectitic, mesic Typic Albaqualfs
Sable	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Sawmill	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Stronghurst	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Swanwick	Fine-silty, mixed, active, nonacid, mesic Alfic Udarents
Tice	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Timewell	Fine, smectitic, mesic Aquic Argiudolls
Ursa	Fine, smectitic, mesic Chromic Vertic Hapludalfs
Virden	Fine, smectitic, mesic Vertic Argiaquolls
Wakeland	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents

1/ = assumed activity class

Certification Statement:

The MO Leader certifies that:

1. This soil survey update joins published modern soil surveys in Warren, Fulton, Schuyler, Hancock Counties and the out-of-date survey in Henderson County. Joining has been checked and an adequate join exists with the published detailed soil maps of the adjoining counties listed above. An exact join with all adjacent counties will exist when those counties are updated.
2. Interpretations are coordinated with adjoining survey areas. The manuscript will be generated using the MUG (map unit generator) program, therefore, the text and tables should be consistent with the NASIS data. Exceptions to perfect agreement between the NASIS data and the manuscript are only those noted in this Correlation Memorandum.
3. The location of all series typical pedons has been checked for correct location and for the soil delineations using that name. Series typical pedons are those that represent the soils in MLRA 108. Not all typical pedons are located in McDonough County. A list of map unit symbols and location of a representative mapping unit in MLRA 108 will be published in the soil survey report.
4. All publication soil map unit symbols are those shown as publication symbols in the conversion legend of this Correlation Memorandum.
5. All typifying pedons used for classification are accurately classified according to Soil Taxonomy.

Approved Signatures and Date:



Joseph W. McCloskey
Region 10 Team Leader (Date)



William Gradle
State Conservationist (Date) 8-2-02

