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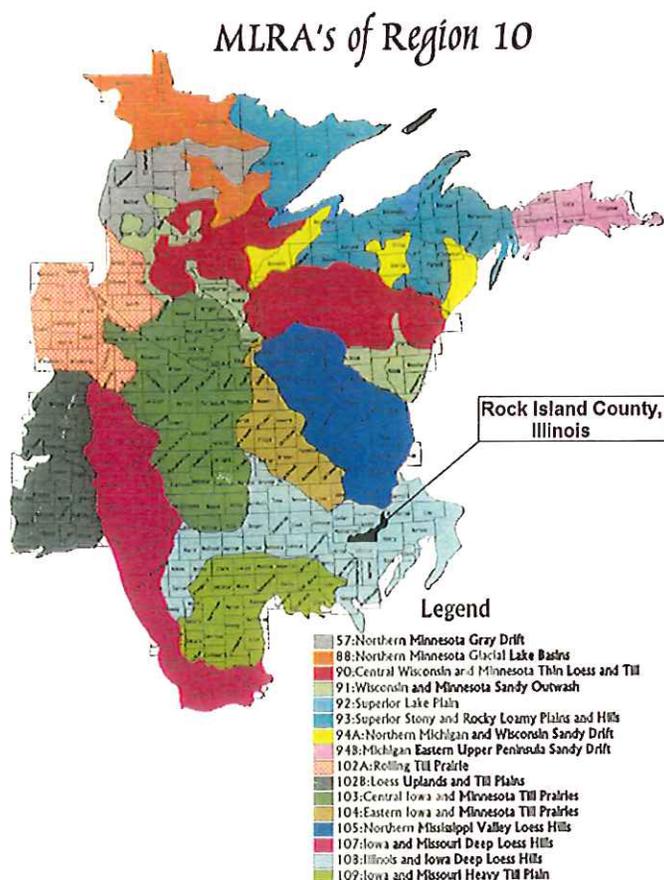
Natural Resources
Conservation Service

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

Classification and Correlation of Soils in Rock Island County, Illinois

A Subset of MLRA 108B and MLRA 115C

February 2002



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

**CLASSIFICATION AND CORRELATION
OF THE SOILS OF
ROCK ISLAND COUNTY, ILLINOIS
MLRA 108B and 115C**

February 2002

This recorrelation was prepared by John Hempel, Soil Specialist, on the MLRA Region 10 staff in December 1999, and subsequently updated by the Rock Falls MLRA staff. It was prepared as part of the update of the soil survey of Rock Island County, Illinois. This update is a subset of the combined soil survey update of MLRA 108B and 115C in Illinois. Dave Preloger, Soil Scientist (MLRA) for MLRA 108B in Illinois, prepared the preliminary correlation. Steve Elmer, Project Leader (MLRA), provided correlation of map units in this document for MLRA 108B in Illinois. The Initial Review was held in October of 1997; a Progressive Soil Survey Review was held in November of 1998; and a Final Review and Correlation Conference in April of 2000, all held at Rock Falls, Illinois. Decisions made on these reviews were based on pedon data, soil correlation samples, soil maps, survey area field notes, and field review reports. Prior to publishing this correlation a final draft was critically reviewed by Steve Elmer, Dave Preloger, John Doll, NRCS Soil Scientist, Illinois State Office and Tom Neuenfeldt, Soil Data Quality Specialist, MLRA Region 10. Final edits were completed by the Rock Falls MLRA Staff in January 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.

Soil Correlation of Rock Island County, Illinois

Field symbols	Field map unit name	Publication symbol	Approved map unit name
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded	8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8E2	HICKORY SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED		
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded	8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
8E3	HICKORY SOILS, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED		
8F	Hickory silt loam, 18 to 35 percent slopes	8F	Hickory silt loam, 18 to 35 percent slopes
8F	HICKORY SILT LOAM, 18 TO 30 PERCENT SLOPES		
8F3	Hickory clay loam, 18 to 35 percent slopes, severely eroded	8F3	Hickory clay loam, 18 to 35 percent slopes, severely eroded
8F3	HICKORY SOILS, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED		
19C3	Sylvan silty clay loam, 5 to 10 percent slopes, severely eroded	19C3	Sylvan silty clay loam, 5 to 10 percent slopes, severely eroded
19D3	SYLVAN SOILS, 7 TO 12 PERCENT SLOPES, SEVERELY ERODED		
19D	Sylvan silt loam, 10 to 18 percent slopes	19D	Sylvan silt loam, 10 to 18 percent slopes
19E	SYLVAN SILT LOAM, 12 TO 18 PERCENT SLOPES		
19D3	SYLVAN SOILS, 7 TO 12 PERCENT SLOPES, SEVERELY ERODED	19D3	Sylvan silty clay loam, 10 to 18 percent slopes, severely eroded
19D3	Sylvan silty clay loam, 10 to 18 percent slopes, severely eroded		
19E3	SYLVAN SOILS, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED		
19F	SYLVAN SILT LOAM, 18 TO 30 PERCENT SLOPES	19F	Sylvan silt loam, 18 to 35 percent slopes
19F	Sylvan silt loam, 18 to 35 percent slopes		
19F3	SYLVAN SOILS, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED	19F3	Sylvan silty clay loam, 18 to 35 percent slopes, severely eroded
19F3	Sylvan silty clay loam, 18 to 35 percent slopes, severely eroded		
45	DENNY SILT LOAM	45A	Denny silt loam, 0 to 2 percent slopes
45A	Denny silt loam, 0 to 2 percent slopes		
41	MUSCATINE SILT LOAM	51A	Muscatune silt loam, 0 to 2 percent slopes
51A	Muscatune silt loam, 0 to 2 percent slopes		
61	ATTERBERRY SILT LOAM	61A	Atterberry silt loam, 0 to 2 percent slopes
61A	Atterberry silt 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		
36B	TAMA SILT LOAM, 2 TO 6 PERCENT SLOPES	86B	Oscosilt loam, 2 to 5 percent slopes
86B	Oscosilt loam, 2 to 5 percent slopes		
36C2	TAMA SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED	86C2	Oscosilt loam, 5 to 10 percent slopes, eroded
36D2	TAMA SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
86C2	Oscosilt loam, 5 to 10 percent slopes, eroded		
87A	DICKINSON SANDY LOAM, 0 TO 4 PERCENT SLOPES	87A	Dickinson sandy loam, 0 to 2 percent slopes
87A	Dickinson sandy loam, 0 to 2 percent slopes		

Soil Correlation of Rock Island County, Illinois (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
87C	DICKINSON SANDY LOAM, 4 TO 12 PERCENT SLOPES	87C2	Dickinson sandy loam, 5 to 10 percent slopes, eroded
87C2	Dickinson fine sandy loam, 5 to 10 percent slopes, eroded		
88A	Sparta loamy sand, 0 to 2 percent slopes	88A	Sparta loamy sand, 0 to 2 percent slopes
88B	SPARTA SAND, 0 TO 6 PERCENT SLOPES		
172	HOOPESTON SANDY LOAM	172A	Hoopeston sandy loam, 0 to 2 percent slopes
172A	Hoopeston sandy loam, 0 to 2 percent slopes		
212B	Thebes silt loam, 2 to 5 percent slopes	212B	Thebes silt loam, 2 to 5 percent slopes
563B	SEATON SILT LOAM, SANDY SUBSTRATUM, 2 TO 6 PERCENT SLOPES		
250D	Velma silt loam, 10 to 18 percent slopes	250D	Velma silt loam, 10 to 18 percent slopes
250E	VELMA SILT LOAM, 12 TO 18 PERCENT SLOPES		
261	NIOTA SILT LOAM	261A	Niota silt loam, 0 to 2 percent slopes
261A	Niota silt loam, 0 to 2 percent slopes		
577	CLAYEY TERRACE ESCARPMENTS		
274B	Seaton silt loam, 2 to 5 percent slopes	274B	Seaton silt loam, 2 to 5 percent slopes
274B	SEATON SILT LOAM, 2 TO 6 PERCENT SLOPES		
563B	SEATON SILT LOAM, SANDY SUBSTRATUM, 2 TO 6 PERCENT SLOPES		
274B2	Seaton silt loam, 2 to 5 percent slopes, eroded	274B2	Seaton silt loam, 2 to 5 percent slopes, eroded
274C2	SEATON SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED		
274C2	SEATON SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED	274C2	Seaton silt loam, 5 to 10 percent slopes, eroded
274C2	Seaton silt loam, 5 to 10 percent slopes, eroded		
274D2	SEATON SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
943D2	SEATON-TIMULA SILT LOAMS, 7 TO 12 PERCENT SLOPES, ERODED		
274D2	SEATON SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED	274D2	Seaton silt loam, 10 to 18 percent slopes, eroded
274D2	Seaton silt loam, 10 to 18 percent slopes, eroded		
274E2	SEATON SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED		
275	JOY SILT LOAM	275A	Joy silt loam, 0 to 2 percent slopes
275A	Joy silt loam, 0 to 2 percent slopes		
278	STRONGHURST SILT LOAM	278A	Stronghurst silt loam, 0 to 2 percent slopes
278A	Stronghurst silt loam, 0 to 2 percent slopes		
279	ROZETTA SILT LOAM	279A	Rozetta silt loam, 0 to 2 percent slopes
279A	Rozetta silt loam, 0 to 2 percent slopes		
279	ROZETTA SILT LOAM	279B	Rozetta silt loam, 2 to 5 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes		
280B	Fayette silt loam, 2 to 5 percent slopes	280B	Fayette silt loam, 2 to 5 percent slopes
280B	FAYETTE SILT LOAM, 2 TO 6 PERCENT SLOPES		
280B2	Fayette silt loam, 2 to 5 percent slopes, eroded	280B2	Fayette silt loam, 2 to 5 percent slopes, eroded
280C2	FAYETTE SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED		

Soil Correlation of Rock Island County, Illinois (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded	280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
280C2	FAYETTE SILT LOAM, 4 TO 7 PERCENT SLOPES, ERODED		
280D2	FAYETTE SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
280C3	Fayette silty clay loam, 5 to 10 percent slopes, severely eroded	280C3	Fayette silty clay loam, 5 to 10 percent slopes, severely eroded
280D3	FAYETTE SOILS, 7 TO 12 PERCENT SLOPES, SEVERELY ERODED		
317	MILLSDALE SILTY CLAY LOAM	317A	Millsdale silty clay loam, 0 to 2 percent slopes
317A	Millsdale silty clay loam, 0 to 2 percent slopes		
277A	PORT BYRON SILT LOAM, 0 TO 2 PERCENT SLOPES	430A	Raddle silt loam, 0 to 2 percent slopes
386A	DOWNS SILT LOAM, 0 TO 2 PERCENT SLOPES		
430A	Raddle silt loam, 0 to 2 percent slopes		
430A	RADDLE SILT LOAM, 0 TO 2 PERCENT SLOPES		
277B	PORT BYRON SILT LOAM, 2 TO 6 PERCENT SLOPES	430B	Raddle silt loam, 2 to 5 percent slopes
386B	DOWNS SILT LOAM, 2 TO 6 PERCENT SLOPES		
430B	RADDLE SILT LOAM, 2 TO 6 PERCENT SLOPES		
430B	Raddle silt loam, 2 to 5 percent slopes		
525A	Joslin loam, bedrock substratum, 0 to 2 percent slopes	525A	Joslin loam, bedrock substratum, 0 to 2 percent slopes
V506A	HITT LOAM, SHALLOW VARIANT, 0 TO 4 PERCENT SLOPES		
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded	567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
567D2	ELKHART SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
567D2	Elkhart silt loam, 10 to 18 percent slopes, eroded	567D2	Elkhart silt loam, 10 to 18 percent slopes, eroded
567D2	ELKHART SILT LOAM, 7 TO 12 PERCENT SLOPES, ERODED		
567E2	ELKHART SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED		
570B	MARTINSVILLE SILT LOAM, 2 TO 7 PERCENT SLOPES	570B	Martinsville silt loam, 2 to 5 percent slopes
570B	Martinsville silt loam, 2 to 5 percent slopes		
570C3	Martinsville clay loam, 5 to 10 percent slopes, severely eroded	570C3	Martinsville clay loam, 5 to 10 percent slopes, severely eroded
570D3	MARTINSVILLE SOILS, 7 TO 12 PERCENT SLOPES, SEVERELY ERODED		
570D3	Martinsville clay loam, 10 to 18 percent slopes, severely eroded	570D3	Martinsville clay loam, 10 to 18 percent slopes, severely eroded
570E3	MARTINSVILLE SOILS, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED		
647	LAWLER LOAM	647A	Lawler loam, 0 to 2 percent slopes
647A	Lawler loam, 0 to 2 percent slopes		
277A	PORT BYRON SILT LOAM, 0 TO 2 PERCENT SLOPES	671A	Biggsville silt loam, 0 to 2 percent slopes
671A	Biggsville silt loam, 0 to 2 percent slopes		
277B	PORT BYRON SILT LOAM, 2 TO 6 PERCENT SLOPES	671B	Biggsville silt loam, 2 to 5 percent slopes
671B	Biggsville silt loam, 2 to 5 percent slopes		
386A	DOWNS SILT LOAM, 0 TO 2 PERCENT SLOPES	675A	Greenbush silt loam, 0 to 2 percent slopes
675A	Greenbush silt loam, 0 to 2 percent slopes		

Soil Correlation of Rock Island County, Illinois (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
386B 675B	DOWNS SILT LOAM, 2 TO 6 PERCENT SLOPES Greenbush silt loam, 0 to 2 percent slopes	675B	Greenbush silt loam, 0 to 2 percent slopes
689B 741C	Coloma sand, 1 to 7 percent slopes OAKVILLE FINE SAND, 2 TO 12 PERCENT SLOPES	689B	Coloma sand, 1 to 7 percent slopes
689D 741C 741F	Coloma sand, 7 to 15 percent slopes OAKVILLE FINE SAND, 2 TO 12 PERCENT SLOPES OAKVILLE FINE SAND, 12 TO 60 PERCENT SLOPES	689D	Coloma sand, 7 to 15 percent slopes
36A 705A	TAMA SILT LOAM, 0 TO 2 PERCENT SLOPES Buckhart silt loam, 0 to 2 percent slopes	705A	Buckhart silt loam, 0 to 2 percent slopes
727A 727A	Waukee loam, 0 to 2 percent slopes WAUKEE LOAM, 0 TO 4 PERCENT SLOPES	727A	Waukee loam, 0 to 2 percent slopes
741F 741F	Oakville fine sand, 20 to 30 percent slopes OAKVILLE FINE SAND, 12 TO 60 PERCENT SLOPES	741F	Oakville fine sand, 20 to 30 percent slopes
763A 763A 765A	JOSLIN SILT LOAM, 0 TO 2 PERCENT SLOPES Joslin silt loam, 0 to 2 percent slopes TREMPEALEAU SILT LOAM, 0 TO 4 PERCENT SLOPES	763A	Joslin silt loam, 0 to 2 percent slopes
763B 763B	Joslin silt loam, 2 to 5 percent slopes JOSLIN SILT LOAM, 2 TO 6 PERCENT SLOPES	763B	Joslin silt loam, 2 to 5 percent slopes
764A 764A	Coyne fine sandy loam, 0 to 2 percent slopes COYNE FINE SANDY LOAM, 0 TO 4 PERCENT SLOPES	764A	Coyne fine sandy loam, 0 to 2 percent slopes
764C 764C	COYNE FINE SANDY LOAM, 4 TO 12 PERCENT SLOPES Coyne fine sandy loam, 5 to 10 percent slopes	764C	Coyne fine sandy loam, 5 to 10 percent slopes
774 774A	SAUDE LOAM Saude loam, 0 to 2 percent slopes	774A	Saude loam, 0 to 2 percent slopes
63 800C	BLOWN-OUT LAND Psamments, sloping	800C	Psamments, sloping
802B Bp Cf	Orthents, loamy, undulating BORROW PIT CUT AND FILL LAND	802B	Orthents, loamy, undulating
864 Qu	Pits, quarries QUARRY	864	Pits, quarries
865 Gp	Pits, gravel GRAVEL PIT	865	Pits, gravel
898F3 960F3	Hickory-Sylvan complex, 18 to 35 percent slopes, severely eroded HICKORY-SYLVAN COMPLEX, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED	898F3	Hickory-Sylvan complex, 18 to 35 percent slopes, severely eroded
898G 960G	Hickory-Sylvan silt loams, 35 to 60 percent slopes HICKORY-SYLVAN SILT LOAMS, 30 TO 60 PERCENT SLOPES	898G	Hickory-Sylvan silt loams, 35 to 60 percent slopes
913D2 945E2	Marseilles-Hickory complex, 10 to 18 percent slopes, eroded HICKORY-HIGH GAP SILT LOAMS, 12 TO 18 PERCENT SLOPES, ERODED	913D2	Marseilles-Hickory complex, 10 to 18 percent slopes, eroded
913F 945F	Marseilles-Hickory silt loams, 18 to 35 percent slopes HICKORY-HIGH GAP SILT LOAMS, 18 TO 30 PERCENT SLOPES	913F	Marseilles-Hickory silt loams, 18 to 35 percent slopes

Soil Correlation of Rock Island County, Illinois (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
913G	Marseilles-Hickory silt loams, 35 to 60 percent slopes	913G	Marseilles-Hickory silt loams, 35 to 60 percent slopes
945G	HICKORY-HIGH GAP SILT LOAMS, 30 TO 60 PERCENT SLOPES		
741C	OAKVILLE FINE SAND, 2 TO 12 PERCENT SLOPES	917C2	Oakville-Tell complex, 5 to 10 percent slopes, eroded
917C2	Oakville-Tell complex, 5 to 10 percent slopes, eroded		
947C2	LAMONT, TELL, AND BLOOMFIELD SOILS, 4 TO 12 PERCENT SLOPES, ERODED		
917D2	Oakville-Tell complex, 10 to 18 percent slopes, eroded	917D2	Oakville-Tell complex, 10 to 18 percent slopes, eroded
942D2	SEATON-OAKVILLE COMPLEX, 7 TO 12 PERCENT SLOPES, ERODED		
942E2	SEATON-OAKVILLE COMPLEX, 12 TO 18 PERCENT SLOPES, ERODED		
943D2	Seaton-Timula silt loams, 10 to 18 percent slopes, eroded	943D2	Seaton-Timula silt loams, 10 to 18 percent slopes, eroded
943E2	SEATON-TIMULA SILT LOAMS, 12 TO 18 PERCENT SLOPES, ERODED		
942F2	SEATON-OAKVILLE COMPLEX, 18 TO 30 PERCENT SLOPES, ERODED	943F2	Seaton-Timula silt loams, 18 to 35 percent slopes, eroded
943F2	SEATON-TIMULA SILT LOAMS, 18 TO 30 PERCENT SLOPES, ERODED		
943F2	Seaton-Timula silt loams, 18 to 35 percent slopes, eroded		
947F2	LAMONT, TELL, AND BLOOMFIELD SOILS, 12 TO 30 PERCENT SLOPES, ERODED		
944D2	Velma-Coatsburg silt loams, 10 to 18 percent slopes, eroded	944D2	Velma-Coatsburg silt loams, 10 to 18 percent slopes, eroded
944E2	VELMA-COATSBURG SILT LOAMS, 12 TO 18 PERCENT SLOPES, ERODED		
946D3	Hickory-Atlas complex, 10 to 18 percent slopes, severely eroded	946D3	Hickory-Atlas complex, 10 to 18 percent slopes, severely eroded
946E3	HICKORY-ATLAS COMPLEX, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED		
946F3	Hickory-Atlas complex, 18 to 35 percent slopes, severely eroded	946F3	Hickory-Atlas complex, 18 to 35 percent slopes, severely eroded
946F3	HICKORY-ATLAS COMPLEX, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED		
959G	Strawn-Chute complex, 18 to 60 percent slopes	959G	Strawn-Chute complex, 18 to 60 percent slopes
959G	STRAWN-CHUTE COMPLEX, 25 TO 60 PERCENT SLOPES		
960D2	Hickory-Fayette-Sylvan silt loams, 10 to 18 percent slopes, eroded	960D2	Hickory-Sylvan-Fayette silt loams, 10 to 18 percent slopes, eroded
960E2	HICKORY-SYLVAN-FAYETTE SILT LOAMS, 12 TO 18 PERCENT SLOPES, ERODED		
960D3	Hickory-Sylvan-Fayette complex, 10 to 18 percent slopes, severely eroded	960D3	Hickory-Sylvan-Fayette complex, 10 to 18 percent slopes, severely eroded
960E3	HICKORY-SYLVAN-FAYETTE COMPLEX, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED		
960F	HICKORY-SYLVAN-FAYETTE SILT LOAMS, 18 TO 30 PERCENT SLOPES	960F	Hickory-Sylvan-Fayette silt loams, 18 to 30 percent slopes
960F	Hickory-Sylvan-Fayette silt loams, 18 to 30 percent slopes		
961A	BURKHARDT-SAUDE COMPLEX, 0 TO 4 PERCENT SLOPES	961A	Burkhardt-Saude complex, 0 to 2 percent slopes
961A	Burkhardt-Saude complex, 0 to 2 percent slopes		
G577	GRAVELLY TERRACE ESCARPMENTS		

Soil Correlation of Rock Island County, Illinois (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
962F	Sylvan-Bold silt loams, 18 to 35 percent slopes	962F	Sylvan-Bold silt loams, 18 to 35 percent slopes
1076A W76	Otter silt loam, undrained, 0 to 2 percent slopes, frequently flooded OTTER SILT LOAM, WET	1076A	Otter silt loam, undrained, 0 to 2 percent slopes, frequently flooded
455	MIXED ALLUVIAL LAND	1082A	Millington silt loam, undrained, 0 to 2 percent slopes, frequently flooded
718 1082A W82	MARSH Millington silt loam, undrained, 0 to 2 percent slopes, frequently flooded MILLINGTON SILT LOAM, WET		
718	MARSH	1107A	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
1107A W107	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded SAWMILL SILTY CLAY LOAM, WET		
455	MIXED ALLUVIAL LAND	1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded
1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded		
718	MARSH	1654A	Moline silty clay, undrained, 0 to 2 percent slopes, frequently flooded
1654A	Moline silty clay, undrained, 0 to 2 percent slopes, frequently flooded		
74	RADFORD SILT LOAM	3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
451 3074A	LAWSON SILT LOAM Radford silt loam, 0 to 2 percent slopes, frequently flooded		
76	OTTER SILT LOAM	3076A	Otter silt loam, 0 to 2 percent slopes, frequently flooded
3076A	Otter silt loam, 0 to 2 percent slopes, frequently flooded		
82	MILLINGTON SILT LOAM	3082A	Millington silt loam, 0 to 2 percent slopes, frequently flooded
3082A	Millington silt loam, 0 to 2 percent slopes, frequently flooded		
83	WABASH SILTY CLAY	3083A	Wabash silty clay, 0 to 2 percent slopes, frequently flooded
3083A	Wabash silty clay, 0 to 2 percent slopes, frequently flooded		
107	SAWMILL SILTY CLAY LOAM	3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
455 3107A	MIXED ALLUVIAL LAND Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded		
239	DORCHESTER SILT LOAM	3239A	Dorchester silt loam, 0 to 2 percent slopes, frequently flooded
3239A	Dorchester silt loam, 0 to 2 percent slopes, frequently flooded		
400	CALCO SILTY CLAY LOAM	3400A	Calco silty clay loam, 0 to 2 percent slopes, frequently flooded
455 3400A	MIXED ALLUVIAL LAND Calco silty clay loam, 0 to 2 percent slopes, frequently flooded		

Soil Correlation of Rock Island County, Illinois (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
415	ORION SILT LOAM	3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded
455	MIXED ALLUVIAL LAND		
718	MARSH		
3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded		
428	COFFEEN SILT LOAM	3428A	Coffeen silt loam, 0 to 2 percent slopes, frequently flooded
3428A	Coffeen silt loam, 0 to 2 percent slopes, frequently flooded		
74	RADFORD SILT LOAM	3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
451	LAWSON SILT LOAM		
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded		
455	MIXED ALLUVIAL LAND	3646L	Fluvaquents, loamy, 0 to 2 percent slopes, frequently flooded, long duration
3646L	Fluvaquents, loamy, 0 to 2 percent slopes, frequently flooded, long duration		
4400A	Calco silty clay loam, ponded, 0 to 2 percent slopes	4400L 1400A stet	Calco silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded, long duration
W400	CALCO SILTY CLAY LOAM, WET		
76	OTTER SILT LOAM	7076A	Otter silt loam, 0 to 2 percent slopes, rarely flooded
7076A	Otter silt loam, 0 to 2 percent slopes, rarely flooded		
83	WABASH SILTY CLAY	7083A	Wabash silty clay, 0 to 2 percent slopes, rarely flooded
7083A	Wabash silty clay, 0 to 2 percent slopes, rarely flooded		
68	SABLE SILTY CLAY LOAM	7107A	Sawmill silty clay loam, 0 to 2 percent slopes, rarely flooded
107	SAWMILL SILTY CLAY LOAM		
7107A	Sawmill silty clay loam, 0 to 2 percent slopes, rarely flooded		
239	DORCHESTER SILT LOAM	7239A	Dorchester silt loam, 0 to 2 percent slopes, rarely flooded
7239A	Dorchester silt loam, 0 to 2 percent slopes, rarely flooded		
304	LANDES LOAMY FINE SAND	7304A	Landes fine sandy loam, 0 to 2 percent slopes, rarely flooded
7304A	Landes fine sandy loam, 0 to 2 percent slopes, rarely flooded		
7404A	Titus silty clay loam, 0 to 2 percent slopes, rarely flooded	7404A	Titus silty clay loam, 0 to 2 percent slopes, rarely flooded
415	ORION SILT LOAM	7415A	Orion silt loam, 0 to 2 percent slopes, rarely flooded
7415A	Orion silt loam, 0 to 2 percent slopes, rarely flooded		

Soil Correlation of Rock Island County, Illinois (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
41	MUSCATINE SILT LOAM	7428A	Coffeen silt loam, 0 to 2 percent slopes, rarely flooded
61	ATTERBERRY SILT LOAM		
428	COFFEEN SILT LOAM		
7428A	Coffeen silt loam, 0 to 2 percent slopes, rarely flooded		
451	LAWSON SILT LOAM	7451A	Lawson silt loam, 0 to 2 percent slopes, rarely flooded
7451A	Lawson silt loam, 0 to 2 percent slopes, rarely flooded		
465	MONTGOMERY SILTY CLAY LOAM	7654A	Moline silty clay, 0 to 2 percent slopes, rarely flooded
7654A	Moline silty clay, 0 to 2 percent slopes, rarely flooded		
76	OTTER SILT LOAM	8107+	Sawmill silt loam, 0 to 2 percent slopes, occasionally flooded, overwash
107	SAWMILL SILTY CLAY LOAM		
8107+	Sawmill silt loam, 0 to 2 percent slopes, occasionally flooded, overwash		
W76	OTTER SILT LOAM, WET		
347	CANISTEO SILT LOAM	8302A	Ambraw loam, 0 to 2 percent slopes, occasionally flooded
455	MIXED ALLUVIAL LAND		
8302A	Ambraw loam, 0 to 2 percent slopes, occasionally flooded		
82	MILLINGTON SILT LOAM	8400A	Calco silty clay loam, 0 to 2 percent slopes, occasionally flooded
347	CANISTEO SILT LOAM		
400	CALCO SILTY CLAY LOAM		
8400A	Calco silty clay loam, 0 to 2 percent slopes, occasionally flooded		
W82	MILLINGTON SILT LOAM, WET		
83	WABASH SILTY CLAY	8404A	Titus silty clay loam, 0 to 2 percent slopes, occasionally flooded
107	SAWMILL SILTY CLAY LOAM		
8404A	Titus silty clay loam, 0 to 2 percent slopes, occasionally flooded		
W107	SAWMILL SILTY CLAY LOAM, WET		
M-W	Miscellaneous Water	M-W	Miscellaneous Water
W	Water	W	Water

Series Established by this Correlation:

None

Series added to previous correlated legend:

Ambraw, Biggsville, Birds, Coloma, Greenbush, Moline, Muscatune, Normandy, Osco, Plainfield, Thebes, Titus

Series Dropped or Made Inactive:

Bloomfield, Canisteo, Downs, High Gap, Hitt, Lamont, Montgomery, Muscatine, Port Byron, Tama, Trempealeau

Verification of Exact Cooperator Names:

For the front cover, general soil map, 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 and in addition state: "This soil survey update is part of the technical assistance provided to the Rock Island County Soil and Water Conservation District. Financial assistance was made available by the Rock Island County Board and the Illinois Department of Agriculture."

Prior Soil Survey Publication:

A prior soil survey of Rock Island County, Illinois was published in 1977 (Univ. of Il. Agric. Exp. Sta. Soil Report No. 97, R. Rehner).

This soil 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 digitally reproduced from a published scale of 1:15,840. Maps were then printed and recompiled onto 3.75' Quarter Quad ortho-photography at a scale of 1:12000 and digitally reentered. 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 Rock Island County will remain at the state office, be certified for SSURGO at NCC, and be provided to the Rock Island County Board as part of the cost share cooperative agreement.

Instructions for Map Compilation and Map Finishing:

Map recompilation will be completed by the Rock Falls MLRA staff. The compiled maps and supporting documentation have been forwarded to the NRCS state office in Champaign. Digitizing will be completed by the NRCS Wisconsin Digitizing Center using the soil identification legend and symbols legend in this document.

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

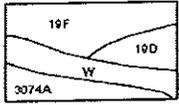
Conventional and Special Symbols Legend:

Only those symbols indicated on the NRCS-SOILS-37A (5/01) will be shown on the legend and placed on the maps. The definition of the special symbols for escarpment, other, marsh or swamp, short steep slope and spoil area in Rock Island County are not as stated in Part 647 of the National Soil Survey Handbook.

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

Soil Survey Area: **ROCK ISLAND COUNTY**
State: **ILLINOIS**

Date: **Dec 2001**

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL																																																																																																																																															
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<p><input checked="" type="checkbox"/> SOIL DELINEATIONS AND LABELS</p> 		<p>BOUNDARIES</p> <p><input checked="" type="checkbox"/> National, state or province</p> <p><input checked="" type="checkbox"/> County or parish</p> <p>Minor civil division</p> <p>Reservation (national or state forest or park)</p> <p>Limit of soil survey (label) and/or denied access lines</p> <p><input checked="" type="checkbox"/> Field stream/alkaline and nesting</p> <p>Public Land Survey System Section Boundary</p> <p><input checked="" type="checkbox"/> Public Land Survey System Section Corner Tics</p>		<p><input checked="" type="checkbox"/> Drainage and (indicates direction of flow)</p> <p>Perennial stream</p> <p>Intermittent stream</p> <p><input checked="" type="checkbox"/> Undersized stream</p> <p>Perennial drainage or irrigation ditch</p> <p>Intermittent drainage or irrigation ditch</p> <p><input checked="" type="checkbox"/> Undersized drainage or irrigation ditch</p> <p>Flood pool line</p> <p>Spring</p> <p>Well, artesian</p> <p>Well, irrigation</p>																																																																																																																																																
<p>STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES</p> <p><input checked="" type="checkbox"/> Bedrock escarpment</p> <p><input checked="" type="checkbox"/> Non-bedrock escarpment</p> <p><input checked="" type="checkbox"/> Gully</p> <p><input checked="" type="checkbox"/> Levee</p> <p><input checked="" type="checkbox"/> Short steep slope</p> <p><input checked="" type="checkbox"/> Blowout</p> <p><input checked="" type="checkbox"/> Borrow pit</p> <p><input checked="" type="checkbox"/> Clay spot</p> <p><input checked="" type="checkbox"/> Closed depression</p> <p><input checked="" type="checkbox"/> Gravel pit</p> <p><input checked="" type="checkbox"/> Gravelly spot</p> <p><input checked="" type="checkbox"/> Landfill</p> <p><input checked="" type="checkbox"/> Land flow</p> <p><input checked="" type="checkbox"/> Marsh or swamp</p> <p><input checked="" type="checkbox"/> Mine or quarry</p> <p><input checked="" type="checkbox"/> Miscellaneous water</p> <p><input checked="" type="checkbox"/> Perennial water</p> <p><input checked="" type="checkbox"/> Rock outcrop</p> <p><input checked="" type="checkbox"/> Saline spot</p> <p><input checked="" type="checkbox"/> Sandy spot</p> <p><input checked="" type="checkbox"/> Severely eroded spot</p> <p><input checked="" type="checkbox"/> Sinkhole</p> <p><input checked="" type="checkbox"/> Slide or slip</p> <p><input checked="" type="checkbox"/> Sodic spot</p> <p><input checked="" type="checkbox"/> Spot area</p> <p><input checked="" type="checkbox"/> Stony spot</p> <p><input checked="" type="checkbox"/> Very stony spot</p> <p><input checked="" type="checkbox"/> Wet spot</p>		<p>TRANSPORTATION</p> <p>Divided road Normally not shown</p> <p>Other road Normally not shown</p> <p>Trail Normally not shown</p>																																																																																																																																																		
<p>AD HOC FEATURES (Describe on back)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>LABEL</th> <th>SYMBOL ID</th> <th>SYMBOL</th> <th>LABEL</th> <th>SYMBOL ID</th> <th>SYMBOL</th> </tr> </thead> <tbody> <tr><td>---</td><td>1</td><td><</td><td>---</td><td>22</td><td>⊙</td></tr> <tr><td>---</td><td>2</td><td>⊞</td><td>---</td><td>23</td><td>⊙</td></tr> <tr><td>---</td><td>3</td><td>□</td><td>---</td><td>24</td><td>⊙</td></tr> <tr><td>---</td><td>4</td><td>⊞</td><td><input checked="" type="checkbox"/> O S P</td><td>25</td><td>⊙</td></tr> <tr><td>---</td><td>5</td><td>⊞</td><td>---</td><td>26</td><td>⊙</td></tr> <tr><td>---</td><td>6</td><td>⊞</td><td>---</td><td>27</td><td>⊙</td></tr> <tr><td>---</td><td>7</td><td>⊞</td><td>C S P</td><td>28</td><td>⊙</td></tr> <tr><td>---</td><td>8</td><td>⊞</td><td>---</td><td>29</td><td>⊞</td></tr> <tr><td>---</td><td>9</td><td>⊞</td><td>---</td><td>30</td><td>⊞</td></tr> <tr><td>---</td><td>10</td><td>⊞</td><td>---</td><td>31</td><td>⊞</td></tr> <tr><td>---</td><td>11</td><td>⊞</td><td>---</td><td>32</td><td>⊞</td></tr> <tr><td>---</td><td>12</td><td>⊞</td><td>---</td><td>33</td><td>⊞</td></tr> <tr><td>---</td><td>13</td><td>⊞</td><td>---</td><td>34</td><td>⊞</td></tr> <tr><td>---</td><td>14</td><td>⊞</td><td>---</td><td>35</td><td>⊞</td></tr> <tr><td>---</td><td>15</td><td>⊞</td><td>---</td><td>36</td><td>+</td></tr> <tr><td>---</td><td>16</td><td>⊞</td><td>---</td><td>37</td><td>+</td></tr> <tr><td>---</td><td>17</td><td>⊞</td><td>---</td><td>38</td><td>+</td></tr> <tr><td>---</td><td>18</td><td>⊞</td><td>---</td><td>39</td><td>+</td></tr> <tr><td>---</td><td>19</td><td>⊞</td><td>---</td><td>40</td><td>+</td></tr> <tr><td>---</td><td>20</td><td>⊞</td><td>---</td><td>41</td><td>+</td></tr> <tr><td><input checked="" type="checkbox"/> D S S</td><td>21</td><td>⊞</td><td>---</td><td>42</td><td>+</td></tr> <tr><td>---</td><td>22</td><td>⊞</td><td>---</td><td>43</td><td>+</td></tr> <tr><td>---</td><td>23</td><td>⊞</td><td>---</td><td>44</td><td>+</td></tr> </tbody> </table>	LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL	---	1	<	---	22	⊙	---	2	⊞	---	23	⊙	---	3	□	---	24	⊙	---	4	⊞	<input checked="" type="checkbox"/> O S P	25	⊙	---	5	⊞	---	26	⊙	---	6	⊞	---	27	⊙	---	7	⊞	C S P	28	⊙	---	8	⊞	---	29	⊞	---	9	⊞	---	30	⊞	---	10	⊞	---	31	⊞	---	11	⊞	---	32	⊞	---	12	⊞	---	33	⊞	---	13	⊞	---	34	⊞	---	14	⊞	---	35	⊞	---	15	⊞	---	36	+	---	16	⊞	---	37	+	---	17	⊞	---	38	+	---	18	⊞	---	39	+	---	19	⊞	---	40	+	---	20	⊞	---	41	+	<input checked="" type="checkbox"/> D S S	21	⊞	---	42	+	---	22	⊞	---	43	+	---	23	⊞	---	44	+		<p>ROAD EMBLEMS</p> <p><input checked="" type="checkbox"/> Interstate</p> <p><input checked="" type="checkbox"/> Federal</p> <p><input checked="" type="checkbox"/> State</p> <p>County, farm or ranch</p>		
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		<p>LOCATED OBJECTS</p> <p>Airport, airfield</p> <p>Cemetery</p> <p>Church</p> <p>Farmstead, house (omit in urban areas)</p> <p>Lighthouse</p> <p>Located object (label)</p> <p>Lookout tower</p> <p>Oil and/or natural gas well</p> <p>Other Religion (label)</p> <p>School</p> <p>Soil sample site (completed only not published)</p> <p>Tank (label)</p> <p>Windmill</p>																																																																																																																																																		

**DEFINITIONS OF SPECIAL FEATURES FOR
ROCK ISLAND COUNTY, ILLINOIS SOIL SURVEY**

Label	Minor Code	Name	Feature Definition
BLO	900 307	Blowout	A small saucer, cup or trough-shaped hollow or depression formed by wind erosion, on a pre-existing sand deposit. Typically 1/4 to 2 acres.
CLA	900 309	Clay Spot,	Surface texture is silty clay or clay. Typically 1/4 to 2 acres.
ESB	900 204	Escarpment, Bedrock	A relatively continuous and steep slope or cliff produced by erosion or faulting breaking the general continuity of more gently sloping land surfaces. Exposed material is hard or soft bedrock.
ESO	900 206	Escarpment, Non-bedrock	A relatively continuous and steep slope or cliff produced by erosion or faulting breaking the general continuity of more gently sloping land surfaces. Exposed nonbedrock material is developed soil.
GPI	920 302	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 1/4 to 2 acres.
GRA	900 310	Gravelly spot	Surface layer has more than 35 percent, by volume, of rock fragments that are mostly less than 3 inches in diameter. Typically 1/4 to 2 acres.
LVS	920 208	Levee	An embankment to confine or control water, especially one built along the banks of a river to prevent overflow of lowlands.
MAR	905 111	Marsh or swamp	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 or shrubs. Typically 1/4 to 2 acres.
MPI	920 325	Mine or quarry	An open excavation from which soil and underlying material is removed exposing the bedrock. Also used to denote surface openings to underground mines. Typically 1/4 to 2 acres.

Label	Minor Code	Name	Feature Definition
ROC	900 311	Rock outcrop	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	900 313	Sandy spot	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	900 314	Severely eroded spot	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	900 203	Short steep slope	Narrow soil area that has slopes that are at least 1 slope class steeper than the slope class of the surrounding map unit.
STN	900 317	Stony spot	An area with 0.01 to 3 percent of the surface covered with rock fragments that are greater than 10 inches in diameter. Typically 1/4 to 2 acres.
WET	905 330	Wet spot	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.
DSS	998 20	Disturbed soil spot	Small man-disturbed areas that consist primarily of earth fill from excavations. The soil material is capable of supporting plant life. In many places it contains fragments of bricks, concrete, broken glass, etc. Typically 1/4 to 2 acres.
GSP	998 26	Gray Soil Spot	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 subsurface layer. These areas are in poorly drained depressions. Typically 1/4 to 2 acres.

Soil Identification Legend According to Alphabetical Sequence

Map symbol	Soil name
8302A	Ambraw loam, 0 to 2 percent slopes, occasionally flooded
61A	Atterberry silt loam, 0 to 2 percent slopes
671A	Biggsville silt loam, 0 to 2 percent slopes
671B	Biggsville silt loam, 2 to 5 percent slopes
1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded
705A	Buckhart silt loam, 0 to 2 percent slopes
961A	Burkhardt-Saude complex, 0 to 2 percent slopes
3400A	Calco silty clay loam, 0 to 2 percent slopes, frequently flooded
8400A	Calco silty clay loam, 0 to 2 percent slopes, occasionally flooded
1400A 4400L	Calco silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded, long duration
3428A	Coffeen silt loam, 0 to 2 percent slopes, frequently flooded
7428A	Coffeen silt loam, 0 to 2 percent slopes, rarely flooded
689B	Coloma sand, 1 to 7 percent slopes
689D	Coloma sand, 7 to 15 percent slopes
764A	Coyne fine sandy loam, 0 to 2 percent slopes
764C	Coyne fine sandy loam, 5 to 10 percent slopes
45A	Denny silt loam, 0 to 2 percent slopes
87C2	Dickinson sandy loam, 5 to 10 percent slopes, eroded
87A	Dickinson sandy loam, 0 to 2 percent slopes
3239A	Dorchester silt loam, 0 to 2 percent slopes, frequently flooded
7239A	Dorchester silt loam, 0 to 2 percent slopes, rarely flooded
567D2	Elkhart silt loam, 10 to 18 percent slopes, eroded
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
280B	Fayette silt loam, 2 to 5 percent slopes
280B2	Fayette silt loam, 2 to 5 percent slopes, eroded
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
280C3	Fayette silty clay loam, 5 to 10 percent slopes, severely eroded
3646L	Fluvaquents, loamy, 0 to 2 percent slopes, frequently flooded, long duration
675A	Greenbush silt loam, 0 to 2 percent slopes
675B	Greenbush silt loam, 2 to 5 percent slopes
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
8F3	Hickory clay loam, 18 to 35 percent slopes, severely eroded
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8F	Hickory silt loam, 18 to 35 percent slopes
946D3	Hickory-Atlas complex, 10 to 18 percent slopes, severely eroded
946F3	Hickory-Atlas complex, 18 to 35 percent slopes, severely eroded
960D2	Hickory-Sylvan-Fayette silt loams, 10 to 18 percent slopes, eroded
898F3	Hickory-Sylvan complex, 18 to 35 percent slopes, severely eroded
898G	Hickory-Sylvan silt loams, 35 to 60 percent slopes
960D3	Hickory-Sylvan-Fayette complex, 10 to 18 percent slopes, severely eroded
960F	Hickory-Sylvan-Fayette silt loams, 18 to 30 percent slopes
172A	Hoopeston sandy loam, 0 to 2 percent slopes
525A	Joslin loam, bedrock substratum, 0 to 2 percent slopes
763A	Joslin silt loam, 0 to 2 percent slopes

763B	Joslin silt loam, 2 to 5 percent slopes
275A	Joy silt loam, 0 to 2 percent slopes
7304A	Landes fine sandy loam, 0 to 2 percent slopes, rarely flooded
647A	Lawler loam, 0 to 2 percent slopes
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
7451A	Lawson silt loam, 0 to 2 percent slopes, rarely flooded
913D2	Marseilles-Hickory complex, 10 to 18 percent slopes, eroded
913F	Marseilles-Hickory silt loams, 18 to 35 percent slopes
913G	Marseilles-Hickory silt loams, 35 to 60 percent slopes
570D3	Martinsville clay loam, 10 to 18 percent slopes, severely eroded
570C3	Martinsville clay loam, 5 to 10 percent slopes, severely eroded
570B	Martinsville silt loam, 2 to 5 percent slopes
3082A	Millington silt loam, 0 to 2 percent slopes, frequently flooded
1082A	Millington silt loam, undrained, 0 to 2 percent slopes, frequently flooded
317A	Millsdale silty clay loam, 0 to 2 percent slopes
M-W	Miscellaneous Water
7654A	Moline silty clay, 0 to 2 percent slopes, rarely flooded
1654A	Moline silty clay, undrained, 0 to 2 percent slopes, frequently flooded
51A	Muscataune silt loam, 0 to 2 percent slopes
261A	Niota silt loam, 0 to 2 percent slopes
741F	Oakville fine sand, 20 to 30 percent slopes
917D2	Oakville-Tell complex, 10 to 18 percent slopes, eroded
917C2	Oakville-Tell complex, 5 to 10 percent slopes, eroded
3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded
7415A	Orion silt loam, 0 to 2 percent slopes, rarely flooded
802B	Orthents, loamy, undulating
86B	Oscos silt loam, 2 to 5 percent slopes
86C2	Oscos silt loam, 5 to 10 percent slopes, eroded
6075A	Otter silt loam, 0 to 2 percent slopes, frequently flooded
7076A	Otter silt loam, 0 to 2 percent slopes, rarely flooded
1076A	Otter silt loam, undrained, 0 to 2 percent slopes, frequently flooded
865	Pits, gravel
864	Pits, quarries
800C	Psamments, sloping
430A	Raddle silt loam, 0 to 2 percent slopes
430B	Raddle silt loam, 2 to 5 percent slopes
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
279A	Rozetta silt loam, 0 to 2 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes
774A	Saude loam, 0 to 2 percent slopes
8107+	Sawmill silt loam, 0 to 2 percent slopes, occasionally flooded, overwash
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
7107A	Sawmill silty clay loam, 0 to 2 percent slopes, rarely flooded
1107A	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
274D2	Seaton silt loam, 10 to 18 percent slopes, eroded
274B	Seaton silt loam, 2 to 5 percent slopes
274B2	Seaton silt loam, 2 to 5 percent slopes, eroded
274C2	Seaton silt loam, 5 to 10 percent slopes, eroded

943D2	Seaton-Timula silt loams, 10 to 18 percent slopes, eroded
943F2	Seaton-Timula silt loams, 18 to 35 percent slopes, eroded
88A	Sparta loamy sand, 0 to 2 percent slopes
959G	Strawn-Chute complex, 18 to 60 percent slopes
278A	Stronghurst silt loam, 0 to 2 percent slopes
19D	Sylvan silt loam, 10 to 18 percent slopes
19F	Sylvan silt loam, 18 to 35 percent slopes
19D3	Sylvan silty clay loam, 10 to 18 percent slopes, severely eroded
19F3	Sylvan silty clay loam, 18 to 35 percent slopes, severely eroded
19C3	Sylvan silty clay loam, 5 to 10 percent slopes, severely eroded
962F	Sylvan-Bold silt loams, 18 to 35 percent slopes
212B	Thebes silt loam, 2 to 5 percent slopes
8404A	Titus silty clay loam, 0 to 2 percent slopes, occasionally flooded
7404A	Titus silty clay loam, 0 to 2 percent slopes, rarely flooded
250D	Velma silt loam, 10 to 18 percent slopes
944D2	Velma-Coatsburg silt loams, 10 to 18 percent slopes, eroded
3083A	Wabash silty clay, 0 to 2 percent slopes, frequently flooded
7083A	Wabash silty clay, 0 to 2 percent slopes, rarely flooded
W	Water
727A	Waukee loam, 0 to 2 percent slopes

Prime Farmland

(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	Soil name
45A	Denny silt loam, 0 to 2 percent slopes (Prime farmland if drained)
51A	Muscataine silt loam, 0 to 2 percent slopes
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	Coco silt loam, 2 to 5 percent slopes
87A	Dickinson sandy loam, 0 to 2 percent slopes
87C2	Dickinson sandy loam, 5 to 10 percent slopes, eroded
172A	Hoopston sandy loam, 0 to 2 percent slopes
212B	Thebes silt loam, 2 to 5 percent slopes
261A	Niota silt loam, 0 to 2 percent slopes (Prime farmland if drained)
274B	Seaton silt loam, 2 to 5 percent slopes
274B2	Seaton silt loam, 2 to 5 percent slopes, eroded
275A	Joy silt loam, 0 to 2 percent slopes
278A	Stronghurst silt loam, 0 to 2 percent slopes (Prime farmland if drained)
279A	Rozetta silt loam, 0 to 2 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes
280B	Fayette silt loam, 2 to 5 percent slopes
280B2	Fayette silt loam, 2 to 5 percent slopes, eroded
317A	Millsdale silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
430A	Raddle silt loam, 0 to 2 percent slopes
430B	Raddle silt loam, 2 to 5 percent slopes
525A	Joslin loam, bedrock substratum, 0 to 2 percent slopes
570B	Martinsville silt loam, 2 to 5 percent slopes
647A	Lawler loam, 0 to 2 percent slopes
671A	Biggsville silt loam, 0 to 2 percent slopes
671B	Biggsville silt loam, 2 to 5 percent slopes
675A	Greenbush silt loam, 0 to 2 percent slopes
675B	Greenbush silt loam, 0 to 2 percent slopes
705A	Buckhart silt loam, 0 to 2 percent slopes
727A	Waukee loam, 0 to 2 percent slopes
763A	Joslin silt loam, 0 to 2 percent slopes
763B	Joslin silt loam, 2 to 5 percent slopes
764A	Coyne fine sandy loam, 0 to 2 percent slopes
774A	Saude loam, 0 to 2 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)
3076A	Otter 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)

Map symbol	Soil name
3082A	Millington 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)
3083A	Wabash silty clay, 0 to 2 percent slopes, frequently flooded (Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season)
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)
3239A	Dorchester 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)
3400A	Calco 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)
3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
3428A	Coffeen silt loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if 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)
7076A	Otter silt loam, 0 to 2 percent slopes, rarely flooded (Prime farmland if drained)
7083A	Wabash silty clay, 0 to 2 percent slopes, rarely flooded (Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season)
7107A	Sawmill silty clay loam, 0 to 2 percent slopes, rarely flooded (Prime farmland if drained)
7239A	Dorchester silt loam, 0 to 2 percent slopes, rarely flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
7304A	Landes fine sandy loam, 0 to 2 percent slopes, rarely flooded
7404A	Titus silty clay loam, 0 to 2 percent slopes, rarely flooded (Prime farmland if drained)
7415A	Orion silt loam, 0 to 2 percent slopes, rarely flooded
7428A	Coffeen silt loam, 0 to 2 percent slopes, rarely flooded
7451A	Lawson silt loam, 0 to 2 percent slopes, rarely flooded
7654A	Moline silty clay, 0 to 2 percent slopes, rarely flooded (Prime farmland if drained)
8107+	Sawmill silt loam, 0 to 2 percent slopes, occasionally flooded, overwash (Prime farmland if drained)
8302A	Ambraw loam, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)
8400A	Calco silty clay loam, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)
8404A	Titus silty clay loam, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)

**Soil Mapunit Symbol Conversion Legend
Rock Island County, Illinois**

Field symbols	Publication symbol
8D2	8D2
8D3	8D3
8E2	8D2
8E3	8D3
8F	8F
8F3	8F3
19C3	19C3
19D	19D
19D3	19C3
19D3	19D3
19E	19D
19E3	19D3
19F	19F
19F3	19F3
36A	705A
36B	86B
36C2	86C2
36D2	86C2
41	51A
41	7428A
45	45A
51A	51A
61	61A
61	7428A
61A	61A
63	800C
68	68A
68	7107A
68A	68A
74	3074A
74	3451A
76	3076A
76	7076A
76	8107+

Field symbols	Publication symbol
82	3082A
82	8400A
83	3083A
83	7083A
83	8404A
86B	86B
86C2	86C2
87A	87A
87C	87C2
87C2	87C2
88A	88A
88B	88A
107	3107A
107	7107A
107	8107+
107	8404A
172	172A
172A	172A
212B	212B
239	3239A
239	7239A
250D	250D
250E	250D
261	261A
261A	261A
274B	274B
274B2	274B2
274C2	274B2
274C2	274C2
274D2	274C2
274D2	274D2
274E2	274D2
275	275A
275A	275A
277A	430A

Field symbols	Publication symbol
277A	671A
277B	430B
277B	671B
278	278A
278A	278A
279	279A
279	279B
279A	279A
279B	279B
280B	280B
280B2	280B2
280C2	280B2
280C2	280C2
280C3	280C3
280D2	280C2
280D3	280C3
304	7304A
317	317A
317A	317A
347	8302A
347	8400A
386A	430A
386A	675A
386B	430B
386B	675B
400	3400A
400	8400A
415	3415A
415	7415A
428	3428A
428	7428A
430A	430A
430B	430B
451	3074A
451	3451A

Field symbols	Publication symbol
451	7451A
455	1082A
455	1334A
455	3107A
455	3400A
455	3415A
455	3646L
455	3870L
455	8302A
45A	45A
465	7654A
525A	525A
563B	212B
563B	274B
567C2	567C2
567D2	567C2
567D2	567D2
567E2	567D2
570B	570B
570C3	570C3
570D3	570C3
570D3	570D3
570E3	570D3
577	261A
647	647A
647A	647A
671A	671A
671B	671B
675A	675A
675B	675B
689B	689B
689D	689D
705A	705A
718	1082A
718	1107A

Field symbols	Publication symbol
718	1654A
718	3415A
727A	727A
727A	727A
741C	689B
741C	689D
741C	917C2
741F	689D
741F	741F
763A	763A
763B	763B
764A	764A
764C	764C
765A	763A
774	774A
774A	774A
800C	800C
802B	802B
864	864
865	865
898F3	893F3
898G	898G
913D2	913D2
913F	913F
913G	913G
917C2	917C2

Field symbols	Publication symbol
917D2	917D2
942D2	917D2
942E2	917D2
942F2	943F2
943D2	274C2
943D2	943D2
943E2	943D2
943F2	943F2
944D2	944D2
944E2	944D2
945E2	913D2
945F	913F
945G	913G
946D3	946D3
946E3	946D3
946F3	946F3
947C2	917C2
947F2	943F2
959G	959G
960D2	960D2
960D3	960D3
960E2	960D2
960E3	960D3
960F	960F
960F3	898F3

Field symbols	Publication symbol
960G	898G
961A	961A
962F	962F
1076A	1076A
1082A	1082A
1107A	1107A
1334A	1334A
1654A	1654A
3074A	3074A
3076A	3076A
3082A	3082A
3083A	3083A
3107A	3107A
3239A	3239A
3400A	3400A
3415A	3415A
3428A	3428A
3451A	3451A
3646L	3646L
4400A	4400L
7076A	7076A
7083A	7083A
7107A	7107A
7239A	7239A
7304A	7304A
7404A	7404A

Field symbols	Publication symbol
7415A	7415A
7428A	7428A
7451A	7451A
7654A	7654A
8107+	8107+
8302A	8302A
8400A	8400A
8404A	8404A
Bp	802B
Cf	802B
G577	961A
Gp	865
M-W	M-W
Qu	864
V506A	525A
W	W
W107	1107A
W107	8404A
W400	4400A
W76	1076A
W76	8107+
W82	1082A
W82	8400A

Classification of Pedons Sampled for Laboratory Analysis

The classification of pedons sampled for laboratory analysis for Rock Island 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.

Classification of the Soils of Rock Island County, Illinois

(A double asterisk in the first column indicates that some map units of the component are taxadjunct to the series. See the section "Notes to accompany the classification and correlation of the soils of Rock Island County to identify the taxadjunct map units and for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Ambraw	Fine-loamy, mixed, superactive, mesic Fluvaquentic Endoaquolls
Atlas	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Atterberry	Fine-silty, mixed, superactive, mesic Udollic Endoaqualfs
Biggsville	Fine-silty, mixed, superactive, mesic Typic Hapludolls
Birds	Fine-silty, mixed, superactive, nonacid, mesic Typic Fluvaquents
Bold	Coarse-silty, mixed, superactive, calcareous, mesic Typic Udorthents
Buckhart	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Burkhardt	Sandy, mixed, mesic Typic Hapludolls
Calco	Fine-silty, mixed, superactive, calcareous, mesic Cumulic Endoaquolls
Chute	Mixed, mesic Typic Udipsamments
Coatsburg	Fine, smectitic, mesic Vertic Argiaquolls
Coffeen	Coarse-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Coloma	Mixed, mesic Lamellic Udipsamments
Coyne	Coarse-loamy, mixed, active, mesic Typic Argiudolls
Denny	Fine, smectitic, mesic Mollic Albaqualfs
Dickinson	Coarse-loamy, mixed, superactive, mesic Typic Hapludolls
Dorchester	Fine-silty, mixed, calcareous, mesic Typic Udifluvents
**Elkhart	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Fayette	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Fluvaquents	Fine-silty, mixed, active, nonacid, mesic Typic Fluvaquents
Greenbush	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Hickory	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Hoopeston	Coarse-loamy, mixed, superactive, mesic Aquic Hapludolls
Joslin	Fine-loamy, mixed, superactive, mesic Typic Argiudolls
Joy	Fine-silty, mixed, superactive, mesic Aquic Hapludolls
Landes	Coarse-loamy, mixed, superactive, mesic Fluventic Hapludolls
Lawler	Fine-loamy over sandy or sandy-skeletal, mixed Aquic Hapludolls
Lawson	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Marseilles	Fine-silty, mixed, active, mesic Typic Hapludalfs
Martinsville	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Millington	Fine-loamy, mixed, superactive, calcareous, mesic Cumulic Endoaquolls
Millsdale	Fine, mixed, active, mesic Typic Argiaquolls
Moline	Fine, smectitic, mesic Vertic Endoaquolls
Muscature	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Niota	Fine, mixed, mesic Vertic Albaqualfs
Oakville	Mixed, mesic Typic Udipsamments

Soil name	Family or higher taxonomic class
Orion	Coarse-silty, mixed, superactive, nonacid, mesic Aquic Udifluvents
Orthents	Fine-loamy, mixed, active, mesic Typic Udorthents
**Osco	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Otter	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Psamments	Mixed, mesic Udipsamments
Raddle	Fine-silty, mixed, superactive, mesic Typic Hapludolls
Radford	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Rozetta	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Sable	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Saude	Coarse-loamy over sandy or sandy-skeletal, mixed, mesic Typic Hapludolls
Sawmill	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Seaton	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Sparta	Sandy, mixed, mesic Entic Hapludolls
Strawn	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Stronghurst	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Sylvan	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Tell	Fine-silty over sandy or sandy-skeletal, mixed, superactive, mesic Typic Hapludalfs
Thebes	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Timula	Coarse-silty, mixed, superactive, mesic Typic Eutrudepts
Titus	Fine, smectitic, mesic Vertic Endoaquolls
Velma	Fine-loamy, mixed, superactive, mesic Typic Argiudolls
Wabash	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
Waukeo	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Typic Hapludolls

**Notes to Accompany
the Classification and Correlation
of the Soils of Rock Island County, Illinois**

by
Steve Elmer

AMBRAW SERIES (Add)

Areas of 455 AND 347 are recorrelated to 8302A with this update.
Pedon # 85-195-353 is the Type Location for this series in MLRA108B.

ATLAS SERIES

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 88IL187-049 is the Type Location for this series in MLRA108B.

ATTERBERRY SERIES

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. OSD pedon # 83-011-108 is also the Type Location for this series in MLRA108B.

BIGGSVILLE SERIES (Add)

This series was proposed in Rock Island County, Illinois to replace the Port Byron soils with a 4 to 6 ft. water table. It classifies fine-silty, mixed, superactive, mesic, Typic Hapludolls.

Though originally described with a water table at >6 feet in Rock Island County, transects, investigations, and profile descriptions support the regional correlation of a water table at a 4 to 6 foot depth.

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. OSD pedon # 98-161-024 is also the Type Location for this series in MLRA108B.

BIRDS SERIES (Add)

This series was added to the Rock Island County legend during this update to replace the mixed alluvial land units (455) along the Mississippi River in the upper part of the county. This unit will then join the recent Whiteside County update. Pedon # 87-109-061 is the Type Location for this series in MLRA108B.

BLOOMFIELD SERIES (Delete)

This soil has been mapped only in complex with Lamont and Tell Series in Rock Island County. The 2 map units have low acres (947C2=1,090 and 947F2=226), variable composition, and have not been correlated elsewhere within the MLRA. Based upon recent transect results and regional evaluations, these map units are being correlated to the 917C2 Oakville-Tell and 943F2 Seaton-Timula complexes, respectively. The latter

are currently on the MLRA legend and occupy similar upland landscapes in adjacent counties (Henry and Whiteside). (see Lamont and Oakville Series)

BOLD SERIES

Bold soils are mapped in complex with Sylvan soils (map unit 962F). Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. OSD pedon # 98-073-223 is also the Type Location for this series in MLRA108B.

BUCKHART SERIES (ADD) Tama soils in map unit 36A have been correlated to the Buckhart series (fine-silty, mixed, superactive, Oxyaquic Argiudolls).

BURKHARDT SERIES

The Burkhardt series is only correlated in a complex with the Saude series in Rock Island County. The two units on A and B slope were combined in the previous correlation due to low acreage. They are subsequently recorrelated as A, 0 to 2 percent slopes upon further investigations of the unit during this update. Pedon # 98-161-035 is the Type Location for this series in MLRA108B.

CALCO SERIES

Map units 3400A and 8400A are added to replace the original map unit 400. 3400A joins with Rock River map units in adjacent Henry and Whiteside Counties. 4400L replaces W400 in ponded areas. (see correlation legend) Pedon # 83-195-240 is the Type Location for this series in MLRA108B.

CANISTEO SERIES (Delete)

Early in the update of Rock Island County flooded areas of this series had been recorrelated to the Normandy series. However after analyzing transect data, Canisteo is being correlated to Ambraw (8302A) west of 1/88-1/80 interchange and Calco (8400A) east of 1/80-1/88 interchange per field transect results.

CHUTE SERIES

The Chute series is correlated in complex with the Strawn series (map unit 959G) in Rock Island County. These soils occur on upland sideslopes. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 82-011-113 is the Type Location for this series in MLRA108B.

COATSBURG SERIES

The Coatsburg series is correlated in a complex with the Velma series (map unit 944D2) in Rock Island County. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 98-161-029 is the Type Location for this series in MLRA108B.

COFFEEN SERIES

Laboratory analysis shows a uniform distribution of sand, silt, and clay in the upper part of the control section. Pedon # 84-195-283 is the Type Location for this series in MLRA108B. 428 is correlated to either 3428A or 7428A, depending upon presence or absence of levee protection.

COLOMA SERIES (ADD)

The Coloma series was added to replace Oakville on terrace positions within Rock Island County. Field transects in county units confirm Mississippi River sand terrace findings in 2000 in Henderson and Mercer Counties that documented sand size and the presence of lamella in the lower part of the control sections.

COYNE SERIES

The Coyne series was proposed and established in this county during the 1960's survey for coarse-loamy, Typic Argiudolls formed in sandy materials underlain by red loamy lacustrine sediments. The argillic horizon has formed in the underlying material. This soil was formerly correlated as a red subsoil variant of the Onarga series. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. OSD pedon # 97-161-018 is also the Type Location for this series in MLRA108B.

DENNY SERIES

Denny soils in Rock Island County were previously correlated as lacking the necessary clay increase for an abrupt textural change. Other characteristics of the soils are within the range defined for the series. Only 341 acres were correlated. The representative pedon and map unit 45A have been moved to the OSD pedon # 00-109-101 and is also the Type Location for this series in MLRA108B.

DICKINSON SERIES

Dickinson soils in Rock Island County are less acid in the B horizon than defined as typical for the series. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 82-011-112 which is the Type Location for this series in MLRA108B.

DORCHESTER SERIES

This soil in Rock Island County lacks the buried A horizon required within 60 inches. The representative pedon and map unit 7239A have been moved to Peoria County where this soil contains a buried A horizon. Pedon # 98-143-002 is the Type Location for this series in MLRA108B. 239 is correlated to either 3239A or 7239A, depending upon presence or absence of levee protection.

DOWNS SERIES (Delete)

These soils were mapped in all the counties within MLRA 108B with a 4 to 6 ft. water table. They have been recorrelated to the proposed Greenbush series during the current update. (see Greenbush)

ELKHART SERIES

The soils in map unit 567C2 are taxadjuncts to the series because they have a thin dark colored surface layers.

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. OSD pedon # 96-107-015 is also the Type Location for this series in MLRA108B.

FAYETTE SERIES

Mapping units on C and D slopes in Rock Island County have grayer and more mottled B horizons than is allowed for the series range. It is assumed that this difference is the result of parent materials. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions.

Pedon # 87-187-018 is the Type Location for this series in MLRA108B.

FLUVAQUENTS (Add)

Areas of map unit 455 on islands of the Mississippi River are correlated to Fluvaquents (map unit 3646L).

GREENBUSH SERIES (Add)

This series was established in Warren County, IL during this update to replace the Downs series with a 4 to 6 ft. water table. This decision was confirmed by field investigations within Rock Island County and the region during this update. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. OSD pedon # 86-187-078 is also the Type Location for this series in MLRA108B.

HICKORY SERIES

Hickory soils in the survey area typically are shallower to carbonates and more alkaline than is common for the Hickory series; as a result they were close competitors for the Miami series. However, the Senachwine series replaces the Miami series. It was the combined opinion of those involved with the earlier correlation that the Hickory series would better describe the soils of this survey area, which is within the Illinoian till plain instead of the Wisconsinan. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions.

Map units 8E3 and 8F3 are recorrelated in the map unit name from Hickory Soils to Hickory Clay Loam.

Pedon # 85-011-020 is the Type Location for this series in MLRA108B. OSD pedon # is 97-017-002.

HIGH GAP SERIES (Delete)

This series formed in shale residuum; was only mapped in Rock Island County in Illinois; and only in complex with the Hickory series (945E2, 945F and 945G), on upland

hillsides. It is being recorrelated to the Marseilles series, which has been extensively correlated on similar positions in adjacent and other northwest Illinois counties.

HITT SERIES (Delete)

This series was previously correlated only in Rock Island County in Illinois. The soil was mapped on terrace positions rather than in uplands. It was associated with, and has similar profiles as, the reddish lacustrine sediments along the Rock River valley, according to update field investigations. This soil has been recorrelated as a bedrock substratum phase of the Joslin series. It is of low acreage (500 acres).

HOOPESTON SERIES

No comment. Pedon # 84-195-314 is the Type Location for this series in MLRA108B.

JOSLIN SERIES

The Joslin series was proposed and established in this county during the 1960's survey for the fine-loamy Typic Argiudolls formed in loamy materials and red lacustrine deposits. The B horizon extends into the lacustrine materials. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. OSD pedon # 98-161-028 is also the Type Location for this series in MLRA108B.

The Trempealeau series (765A map unit) in Rock Island County consists of small acreage (340 acres); was correlated nowhere else; is similar and adjacent to the Joslin series. Trempealeau series was fine-loamy over sandy or sandy skeletal and Joslin is fine-loamy. Trempealeau correlated to the Joslin series during the 1998 field review and with this update.

The soils in map unit 525A (Joslin, bedrock substratum) were originally correlated as a shallow variant of the Hitt series in the county. The terrace landscape position; dominant 40-60 inch depth to bedrock documented in polygon transects; reddish lacustrine materials and similar adjacent soils support inclusion as a phase within the Joslin series. If sufficient acres are correlated in future updates a new series over limestone bedrock should be established.

JOY SERIES

No comment, Pedon # 83-195-146 is the Type Location for this series in MLRA108B.

LAMONT SERIES (Delete)

This soil has been mapped in complex with Tell (fine-silty over sandy or sandy/skeletal, mixed, superactive, mesic Typic Hapludalfs) on upland landscapes in Whiteside County, similar to that of the Lamont-Tell-Bloomfield complex in Rock Island County. Map units of the latter have low acres (947C2=1,090 and 947F2=226), have not been correlated elsewhere, and are being included with the more extensive Oakville-Tell and Seaton-Timula complex map units currently on the MLRA108B legend.
(see Bloomfield, Oakville and Seaton Series)

LANDES SERIES

Landes soils were previously correlated as being more stratified in the horizon underlying the mollic epipedon than is allowed in the series range. These soils classify as Mollic Udifluvents. These soils were determined to be rarely flooded (map unit 7304A) with this update. Pedon # 82-011-179 is the Type Location for this series in MLRA108B.

LAWLER SERIES

No comment. Pedon # 83-195-152 is the Type Location for this series in MLRA108B.

LAWSON SERIES

Flooding frequency is recorrelated from occasional to frequent in Rock Island County, to join with previous update correlations within the region. Rarely flooded map unit 7451A is also added to the legend for those units protected by levees. One map unit of 451 was correlated to the mutual Radford series (map unit 3074A) for joining purposes with Henry County. Pedon # 84-011-012 is the Type Location for this series in MLRA108B.

MARSEILLES SERIES

The Marseilles series replaces the High Gap series in Rock Island County. High Gap soils were mapped in a complex with Hickory soils in Rock Island County. High Gap had not been correlated elsewhere and adjacent counties have all since correlated the Marseilles series. These soils are on similar upland positions developed in shale. Classification is fine-silty, mixed, active, mesic, Typic Hapludalfs. The Marseilles soils in Rock Island County are only correlated within complexes with the Hickory series (913D2, 913F, and 913G. This map unit has been recorrelated to pedon #84IL131102.

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. OSD pedon # 85-011-030 is also the Type Location for this series in MLRA108B.

MARSH (Delete)

Transects in this miscellaneous land type confirm its correlation to various undrained associated series. (see correlation legend)

MARTINSVILLE SERIES

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions.

Map units 570D3 and 570E3 are recorrelated from Martinsville Soils to map units 570C3 and 570D3 Martinsville Clay Loam.

Pedon # 96-019-016 is the Type Location for this series in MLRA108B.

MILLINGTON SERIES

Flooding frequency is recorrelated from occasional to frequent in Rock Island County, to join with similar landscapes and correlations within the MLRA108B region. Map unit 1082A, an undrained phase of Millington replaces W82, a wet phase. All other changes

in the correlation legend are due to joining surrounding counties. (see correlation legend) Pedon # 83-195-245 is the Type Location for this series in MLRA108B.

MILLSDALE SERIES

The Millsdale series in the county has lower color value in the Btg than defined for the series, but this does not affect use and management. Pedon # 98-161-032 is the Type Location for this series in MLRA108B.

MIXED ALLUVIAL LAND (Delete)

Transects in this miscellaneous land type confirm its correlation to various associated series. (see correlation legend for various map unit changes)

MOLINE SERIES (Add)

This series is proposed and established in Henry County with this correlation. It replaces the Montgomery series in Rock Island County. It is on rarely flooded areas along the Rock and Mississippi Rivers. These soils developed in red lacustrine sediments.

An undrained phase of the Moline series (map unit 1654A) partially replaces the Marsh miscellaneous land type in Rock Island County. This decision was based upon field investigations, landforms, and associated soils. (see notes on Marsh) OSD pedon # 97-073-001 is also the Type Location for this series in MLRA108B.

MONTGOMERY SERIES (Delete)

These soils have been recorrelated to the Moline Series.
(see Moline Series)

MUSCATINE SERIES (Delete)

This soil was previously correlated in Rock Island County within this survey area. Muscatine has since been reclassified as a Aquic Hapludolls. This series is now recorrelated to the recently established Muscatune series in agreement with previous MLRA108B update correlations. It classifies fine-silty, mixed, superactive, mesic, Aquic Argiudolls.

MUSCATUNE SERIES (Add)

This series was established in recent updates to replace the Muscatine series. Muscatine has since been reclassified as a Aquic Hapludolls lacking the presence of an argillic horizon. Classification of Muscatune in Rock Island County is fine-silty, mixed, superactive, mesic, Aquic Argiudolls. Pedon # 86-187-100 is the Type Location for this series in MLRA108B.

NIOTA SERIES

OSD type location is in Rock Island County. Pedon # 84-195-267 is the Type Location for this series in MLRA108B. Clayey terrace escarpments on the published legend have been included with Niota and SLP spot symbols added.

OAKVILLE SERIES

This soil has been mapped in complex with Tell (fine-silty over sandy or sandy/skeletal, mixed, superactive, mesic Typic Hapludalfs) on upland landscapes in adjacent Henry and Whiteside County, on landscapes similar to that of the Lamont-Tell-Bloomfield complex in Rock Island County. Map units of the latter have low acres (947C2=1,090 and 947F2=226); have not been correlated elsewhere; and are being included with the more extensive Oakville-Tell complex map units currently on the MLRA legend. (see Bloomfield and Lamont Series) Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. (see correlation legend for the various map units that include Oakville. They have been changed for consistency of the various components within MLRA108B)

Map units 741C and 741F have been recorrelated to the Coloma Series (map unit 689B and 689D) on terrace positions with this update, per field investigation and transect results. These soils on similar positions have been correlated as Coloma in previous updates in MLRA108B.

Pedon # 82-011-184 is the Type Location for this series in MLRA108B.

ORION SERIES

Flooding frequency is recorrelated from occasional to rare or frequent in Rock Island County. Flooding frequency changes were made to join surrounding counties and previous update correlations within the region.

Recent field investigations within MLRA 108B and 115C reveal significant hydric inclusions. Further studies are needed to determine the extent within the series

Pedon # 83-195-132 is the Type Location for this series in MLRA108B.

ORTHENTS (Add)

This soil was added to the Rock Island County legend to replace the Cut and Fill miscellaneous land type. Pedon # 84-011-086 is the Type Location for MLRA108B.

OSCO SERIES (Add)

This series has replaced the Tama series with a 4 to 6 ft. water table in recent MLRA 108B and 115C updates. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions.

The soils in the published 36A map unit has been correlated to the Oxyaquic Buckhart series with this update.

The soils in map unit 86C2 are taxadjuncts to the series because they have a thin dark colored surface layer.

OSD pedon # 56-015-002 is also the Type Location for this series in MLRA108B.

OTTER SERIES

Flooding frequency is recorrelated from occasional to frequent in Rock Island County to join adjacent counties. A separate rarely flooded map unit is also correlated along the Mississippi River in the southwestern part, where the levee provides additional protection. Map unit W76 a wet phase of Otter is recorrelated to 1076A, an undrained phase. All other changes in the correlation legend is due to joining previously updated MLRA108B projects. Pedon # 84-195-199 is the Type Location for this series in MLRA108B.

PORT BYRON SERIES (Delete)

This series was dropped from the legend. Field transects and soil descriptions confirmed a 4 to 6 ft water table. It has been recorrelated to the Biggsville series. (see Biggsville)

PSAMMENTS (Add)

This map unit (800C) was added to Rock Island during this update to replace map unit 63 Blowout miscellaneous land type. Pedon # 79-073-120 is the Type Location for MLRA108B.

RADDLE SERIES

Port Byron (277A & 277B) polygons on colluvial and terrace positions in Rock Island Counties were partially changed to the Raddle Series (map unit 430A & 430B) during the previous correlation in 1972. During this correlation in 1998 the remainder of these units will be changed accordingly. Slope ranges of individual map units have been adjusted to recently established MLRA slope conventions. Pedon # 82-195-063 is the Type Location for this series in MLRA108B.

RADFORD SERIES

Flooding frequency is recorrelated from rare to frequent in Rock Island County to join adjoining counties with similar landscapes and previous correlations within the MLRA region. A partial correlation of map unit 451 to the Radford series (map unit 3074A) is also for joining purposes. Pedon # 83-011-049 is the Type Location for this series in MLRA108B.

ROZETTA SERIES

Map unit 279 has been recorrelated to 279A. 279A has been partially correlated to 279B for joining Mercer County. OSD pedon # 96-177-012 is also the Type Location for MLRA108B.

SABLE SERIES

No comment. OSD pedon # 57-187-001 is also the Type Location for this series in MLRA108B.

SAUDE SERIES

The Saude loam unit in Rock Island County totals 335 acres; has few inclusions and is much more productive than the Burkhardt-Saude complex also mapped in the county. These soils lie along terraces of the Mississippi and its tributaries in Rock Island County. This area is across the Mississippi where the Cedar and Wapsipinicon Rivers enter the Mississippi from Iowa. This soil has been correlated in most Iowa Counties along the Cedar and Wapsipinicon River Watersheds. It is felt that the parent materials to form these soils may have derived from these Iowa sources since this soil doesn't occur in other Illinois Counties.

Pedon # 98-161-028 is the Type Location for this series in MLRA108B.

SAWMILL SERIES

Flooding frequency is mainly recorrelated from occasional to rare or frequent in Rock Island County to join with similar landscapes and correlations within the region. Map unit 1107A, an undrained phase replaces W107, a wet phase. Areas of map unit W107 and 107 (Sawmill Series) have been partially recorrelated to the overwash phase of Sawmill (map unit 8107+) and to the Titus series, map unit 8404A for joining the Whiteside County update. OSD pedon # 96-167-018 is the Type Location for this series in MLRA108B.

SEATON SERIES

Seaton-Oakville map units in Rock Island County were investigated during the update and as a result correlated to the Oakville-Tell complex already on the MLRA legend and recently correlated in adjacent updates. The 942F2 Seaton-Oakville is recorrelated to 943F2 Seaton-Timula with this update, as a result of field investigations.

The Seaton, sandy substratum phase (map unit 563B) in Rock Island County is recorrelated to the Thebes series in the southwestern part of the county. The Thebes series is also correlated along the Edwards River in adjacent Henry and Mercer Counties. (see correlation notes for Henry and Mercer Counties). In the northern part of Rock Island County, transects indicate that the depth to sand in 563B units is typical greater than 50 to 60 inches deep; these units will be included with Seaton units (274 map unit symbol).

The 942F2 Lamont-Tell-Bloomfield complex has been correlated to the 943F2 Seaton-Timula complex, as a result of recent field transect results.

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 83-195-120 is the Type Location for this series in MLRA108B.

SPARTA SERIES

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 73-141-015 is the Type Location for this series in MLRA108B.

STRAWN SERIES

This soil developed in Illinoian till in Rock Island County. The Strawn Series is developed in Wisconsinan till and should be recorrelated to an Illinoian till landscape counterpart when sufficient acres are correlated in future updates. It was mapped in Rock Island County in complex with the Chute series on the Mississippi River bluff. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 98-161-033 is the Type Location for this series in MLRA108B.

STRONGHURST SERIES

No comment. Pedon # 82-011-072 is the Type Location for this series in MLRA108B.

SYLVAN SERIES

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 85-011-040 is the Type Location for this series in MLRA108B;

Map units 19D3, 19E3 and 19F3 Sylvan Soils are recorrelated in the map unit name to 19C3, 19D3 and 19F3 Sylvan Silty Clay Loam.

TAMA SERIES (Delete)

All taxonomic units of Tama in this survey area have been recorrelated to the recently established Buckhart and Osco Series. These soils contain a seasonal water table of 2 to 3.5 feet or 4 to 6 feet, respectively.

TELL SERIES

Tell soils have greater sand content in the upper part of the control section than defined for the series. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. (see Oakville)
Pedon # 82-011-138 is the Type Location for this series in MLRA108B.

THEBES SERIES (Add)

This series was added during this correlation to replace the Seaton, sandy substratum phase (563B) in the southwestern part of the county. Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. OSD pedon # 98-107-200 is also the Type Location for this series in MLRA108B.

TIMULA SERIES

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 83-195-117 is the Type Location for this series in MLRA108B.

TITUS SERIES (Add)

Areas of map unit 83 (Wabash Series) have been partially recorrelated to the Titus series, map unit 8404A for joining Whiteside County. Pedon # 84-195-324 is the Type Location for this series in MLRA108B.

TREMPEALEAU SERIES (Delete)

The Trempealeau series was proposed and established in this county with the previous correlation. Due to low acreage and being the only county in the US where this soil has been mapped, this soil was recorrelated to the Joslin Series in Rock Island County.

This series will become inactive with this update correlation.

VELMA SERIES

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 98-073-203 is the Type Location for this series in MLRA108B.

WABASH SERIES

Flooding frequency is mainly recorrelated from occasional to rare in Rock Island County to join with similar landscapes and correlations of Mercer County; these soils are protected by the Mississippi River levee. Areas of map unit 83 (Wabash Series) have been partially recorrelated to a frequently flooded map unit elsewhere in the county; and to the Titus series, map unit 8404A for joining Whiteside County. Pedon # 98-161-019 is the Type Location for this series in MLRA108B.

WAUKEE SERIES

Slope ranges of individual map units have been adjusted per recently established MLRA slope conventions. Pedon # 85-195-403 is the Type Location for this series in MLRA108B.

NOTE ON MISCELLANEOUS SOIL AND SPOT SYMBOL CORRELATIONS:

CLAYEY TERRACE ESCARPMENT (Delete)

This miscellaneous land type totals only 74 acres in Rock Island County, primarily in long narrow linear units, and will be shown on the digital soil survey as a steep slope symbol.

Cf (CUT AND FILL LAND) (Delete)

Orthents, loamy, undulating (802B) were added to the legend during this update to replace cut and fill land in Rock Island County.

GRAVELLY TERRACE ESCARPMENTS (Delete)

This miscellaneous land type totals only 55 acres in Rock Island County, primarily in long, narrow, linear units, and will be shown on the digital soil maps as a steep slope symbol.

G.P. (GRAVEL PIT) (Delete)

G.P. in Rock Island County is replaced by 865 Pits, Gravel with this update.

L.Q. (LIMESTONE QUARRY) (Delete)

L.Q. in Rock Island County is replaced by 864 Pits, Quarries with this update.

MADELAND, AND B.P. (Delete)

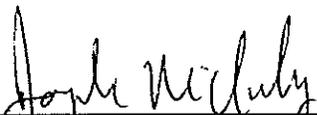
These miscellaneous areas have been recorrelated to Orthents (map unit 802B) with this update correlation. Small areas (less than 2 acres) of madeland shall be correlated to DSS Disturbed soil spot as appropriate. (see spot symbol definitions for 37A)

Certification Statement:

The MO Leader certifies that:

1. This soil survey update joins adjacent published modern soil surveys in Mercer County, Henry County, and Whiteside County. Joining has been checked with the published detailed soil maps in all adjoining counties listed above. New names and symbols were added and some names and symbols were deleted. All changes agree with the MLRA 108B and MLRA 115C soil identification legends.
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 MUIR data and the manuscript will be noted in the 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 108B. Not all typical pedons are located in Rock Island County. A list of map unit symbols and location of a representative mapping unit in MLRA 108B will be published in the soil survey report.
4. All publication symbols will be those shown as approved in the conversion legend of the 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) 3-1-02



William Gradle
State Conservationist (Date) 3/12/02
acting