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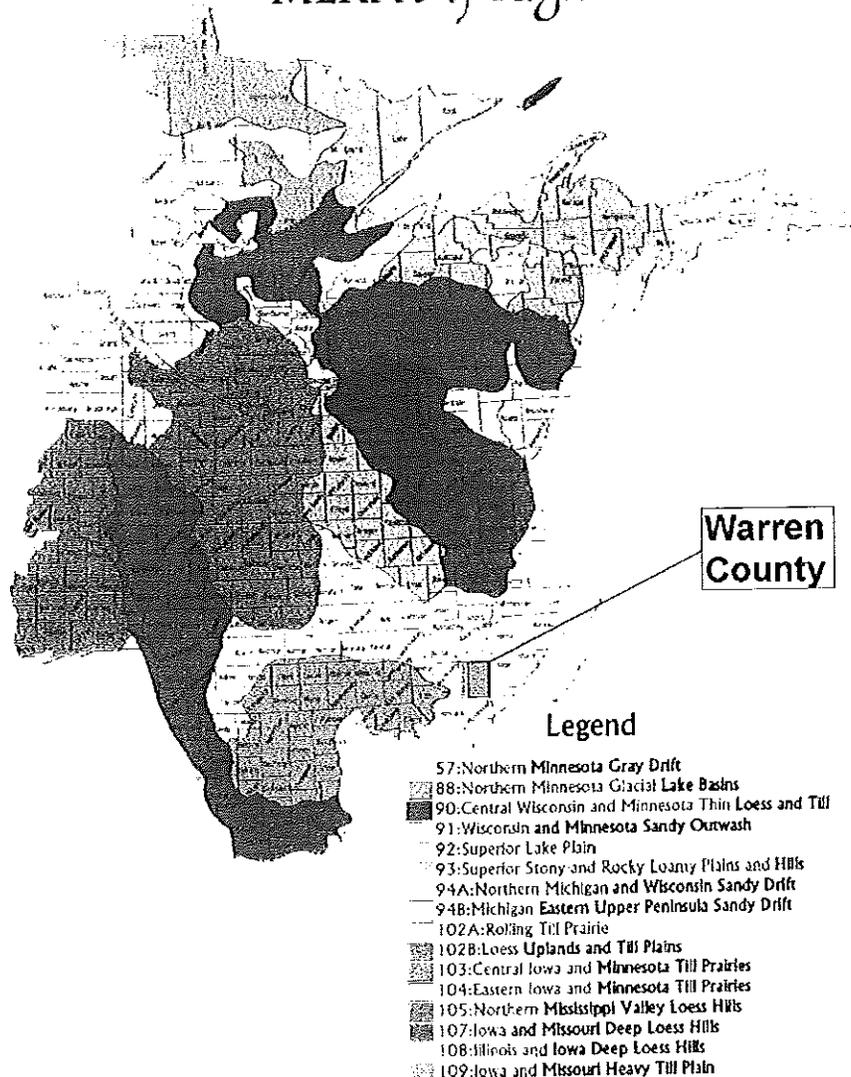
North Central Glaciated
Regional MLRA
Soil Survey Office
St. Paul, Minnesota

Classification and Correlation of Soils in Warren County, Illinois

A Subset of MLRA 108B

July 2002

MLRA's of Region 10





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

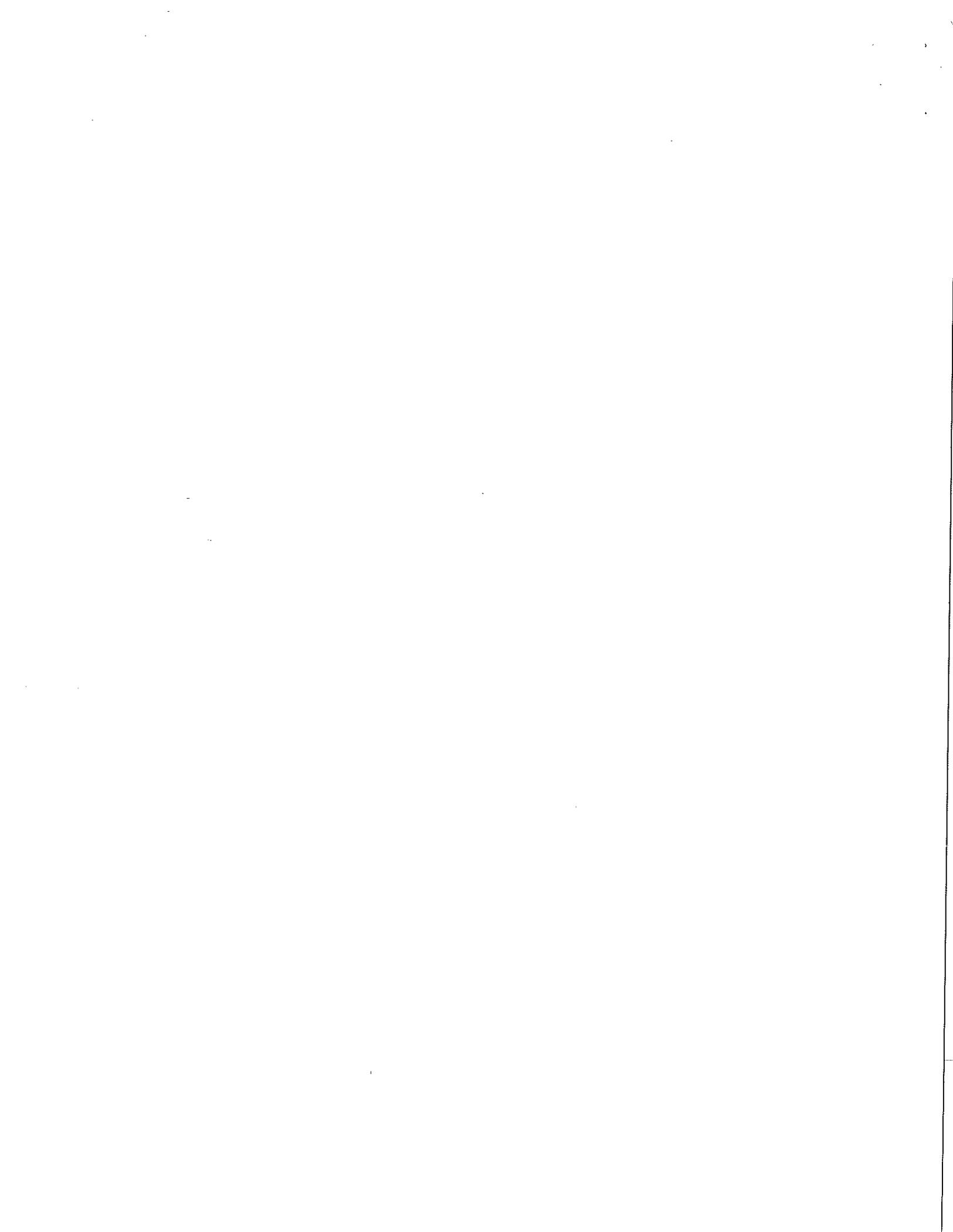
**CLASSIFICATION AND CORRELATION
OF THE SOILS OF
WARREN COUNTY, ILLINOIS
(A Subset of MLRA 108B)**

July, 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 Warren County, Illinois. This update is a subset of the soil survey update of MLRA 108B in Illinois; however, a small area of MLRA 115C is along Swan Creek in the southeastern part of the county. 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. The Rock Falls MLRA Staff completed final edits 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. Map symbols without a slope class letter are miscellaneous units.



Soil Correlation Of
Warren 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
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded	8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
8F 8F	Hickory silt loam, 18 to 35 percent slopes HICKORY SILT LOAM, 18 TO 30 PERCENT SLOPES	8F	Hickory silt loam, 18 to 35 percent slopes
8G 8G	Hickory silt loam, 35 to 60 percent slopes HICKORY SILT LOAM, 30 TO 50 PERCENT SLOPES	8G	Hickory silt loam, 35 to 60 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes	17A	Keomah silt loam, 0 to 2 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes	43A	Ipava silt loam, 0 to 2 percent slopes
43B 43B	IPAVA SILT LOAM, 2 TO 4 PERCENT SLOPES Ipava silt loam, 2 to 5 percent slopes	43B	Ipava silt loam, 2 to 5 percent slopes
45 45A	DENNY SILT LOAM Denny silt loam, 0 to 2 percent slopes	45A	Denny silt 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
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
68+ 68A+	SABLE SILT LOAM, OVERWASH Sable silt loam, 0 to 2 percent slopes, overwash	68A+	Sable silt loam, 0 to 2 percent slopes, overwash
81A	Littleton silt loam, 0 to 2 percent slopes	81A	Littleton silt loam, 0 to 2 percent slopes
36B 86B	TAMA SILT LOAM, 2 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
36C3 86C3	TAMA SILTY CLAY LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED Osco silty clay loam, 5 to 10 percent slopes, severely eroded	86C3	Osco silty clay loam, 5 to 10 percent slopes, severely eroded
36D2 86D2	TAMA SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED Osco silt loam, 10 to 18 percent slopes, eroded	86D2	Osco silt loam, 10 to 18 percent slopes, eroded
7D3 119D2	ATLAS SILTY CLAY LOAM, 10 TO 18 PERCENT SLOPES, SEVERELY ERODED Elco silt loam, 10 to 18 percent slopes, eroded	119D2	Elco silt loam, 10 to 18 percent slopes, eroded
119D2	ELCO SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED		
119E2 119E2	Elco silt loam, 18 to 25 percent slopes, eroded ELCO SILT LOAM, 15 TO 20 PERCENT SLOPES, ERODED	119E2	Elco silt loam, 18 to 25 percent slopes, eroded
134D2 212D2	CAMDEN SILT LOAM, 10 TO 18 PERCENT SLOPES, ERODED Thebes silt loam, 10 to 18 percent slopes, eroded	212D2	Thebes silt loam, 10 to 18 percent slopes, eroded

Soil Correlation Of
Warren County (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
134D3 212D3	CAMDEN SILTY CLAY LOAM, 10 TO 18 PERCENT SLOPES, SEVERELY ERODED Thebes silty clay loam, 10 to 18 percent slopes, severely eroded	212D3	Thebes silty clay loam, 10 to 18 percent slopes, severely eroded
134F 212F	CAMDEN SILT LOAM, 18 TO 35 PERCENT SLOPES Thebes silt loam, 18 to 35 percent slopes	212F	Thebes silt loam, 18 to 35 percent slopes
250D2	Velma silt loam, 10 to 18 percent slopes, eroded	250D2	Velma silt loam, 10 to 18 percent slopes, eroded
257A	Clarksdale silt loam, 0 to 2 percent slopes	257A	Clarksdale silt loam, 0 to 2 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
274C2	Seaton silt loam, 5 to 10 percent slopes, eroded	274C2	Seaton silt loam, 5 to 10 percent slopes, eroded
274D 274D	SEATON SILT LOAM, 10 TO 15 PERCENT SLOPES Seaton silt loam, 10 to 18 percent slopes	274D	Seaton silt loam, 10 to 18 percent slopes
275A	Joy silt loam, 0 to 2 percent slopes	275A	Joy silt loam, 0 to 2 percent slopes
278A	Stronghurst silt loam, 0 to 2 percent slopes	278A	Stronghurst silt loam, 0 to 2 percent slopes
279B	Rozetta 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	279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded
279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded	279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded
280B	Fayette silt loam, 2 to 5 percent slopes	280B	Fayette silt loam, 2 to 5 percent slopes
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded	280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
19D2 280D2 280D2 280E2	SYLVAN SILT LOAM, 10 TO 18 PERCENT SLOPES, ERODED FAYETTE SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED Fayette silt loam, 10 to 18 percent slopes, eroded FAYETTE SILT LOAM, 15 TO 20 PERCENT SLOPES, ERODED	280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
19D3 280D3 280D3	SYLVAN SILTY CLAY LOAM, 10 TO 18 PERCENT SLOPES, SEVERELY ERODED FAYETTE SILTY CLAY LOAM, 10 TO 15 PERCENT SLOPES, SEVERELY ERODED Fayette silty clay loam, 10 to 18 percent slopes, severely eroded	280D3	Fayette silty clay loam, 10 to 18 percent slopes, severely eroded
430B	Raddle silt loam, 2 to 5 percent slopes	430B	Raddle silt loam, 2 to 5 percent slopes
505G 505G	DUNBARTON SILT LOAM, 20 TO 60 PERCENT SLOPES Dunbarton silt loam, 18 to 60 percent slopes	505G	Dunbarton silt loam, 18 to 60 percent slopes
549D2	Marseilles silt loam, 10 to 18 percent slopes, eroded	549D2	Marseilles silt loam, 10 to 18 percent slopes, eroded
549F 549F	Marseilles silt loam, 18 to 35 percent slopes MARSEILLES SILT LOAM, 18 TO 30 PERCENT SLOPES	549F	Marseilles silt loam, 18 to 35 percent slopes

Soil Correlation Of
Warren County (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
549G 549G	MARSEILLES SILT LOAM, 30 TO 60 PERCENT SLOPES Marseilles silt loam, 35 to 60 percent slopes	549G	Marseilles silt loam, 35 to 60 percent slopes
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded	567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
567D3	ELKHART SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	567D3	Elkhart silty clay loam, 10 to 18 percent slopes, severely eroded
567D3	ELKHART SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	567D3	Elkhart silty clay loam, 10 to 18 percent slopes, severely eroded
567D3	Elkhart silty clay loam, 10 to 18 percent slopes, severely eroded		
277B 671B	PORT BYRON SILT LOAM, 2 TO 5 PERCENT SLOPES Biggsville silt loam, 2 to 5 percent slopes	671B	Biggsville silt loam, 2 to 5 percent slopes
277C2	PORT BYRON, 5 TO 10 PERCENT SLOPES, ERODED	671C2	Biggsville silt loam, 5 to 10 percent slopes, eroded
671C2	Biggsville silt loam, 5 to 10 percent slopes, eroded		
386B 675B	DOWNS SILT LOAM, 2 TO 5 PERCENT SLOPES Greenbush silt loam, 2 to 5 percent slopes	675B	Greenbush silt loam, 2 to 5 percent slopes
386C2	DOWNS SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED	675C2	Greenbush silt loam, 5 to 10 percent slopes, eroded
675C2	Greenbush silt loam, 5 to 10 percent slopes, eroded		
268B 678B	MT. CARROLL SILT LOAM, 2 TO 5 PERCENT SLOPES Mannon silt loam, 2 to 5 percent slopes	678B	Mannon silt loam, 2 to 5 percent slopes
67	HARPSTER SILTY CLAY LOAM	712A	Spaulding silty clay loam, 0 to 2 percent slopes
712A	Spaulding silty clay loam, 0 to 2 percent slopes		
802B 802B	Orthents, loamy, undulating ORTHENTS, LOAMY, GENTLY SLOPING	802B	Orthents, loamy, undulating
835G	Earthen dam	835G	Earthen dam
864	Pits, quarries	864	Pits, quarries
895D	Fayette-Westville complex, 10 to 18 percent slopes	895D	Fayette-Westville complex, 10 to 18 percent slopes
895E	FAYETTE-WESTVILLE COMPLEX, 12 TO 20 PERCENT SLOPES		
936D2	Fayette-Hickory silt loams, 10 to 18 percent slopes, eroded	936D2	Fayette-Hickory silt loams, 10 to 18 percent slopes, eroded
936D2	FAYETTE-HICKORY COMPLEX, 10 TO 18 PERCENT SLOPES, ERODED		
936G	Fayette-Hickory silt loams, 35 to 60 percent slopes	936G	Fayette-Hickory silt loams, 35 to 60 percent slopes
936G	FAYETTE-HICKORY COMPLEX, 18 TO 50 PERCENT SLOPES		
943D3	SEATON-TIMULA COMPLEX, 10 TO 18 PERCENT SLOPES, SEVERELY ERODED	943D3	Seaton-Timula silt loams, 10 to 18 percent slopes, severely eroded
943D3	Seaton-Timula silt loams, 10 to 18 percent slopes, severely eroded		
957D2	ELCO-ATLAS COMPLEX, 10 TO 15 PERCENT SLOPES, ERODED	957D2	Elco-Atlas silt loams, 10 to 18 percent slopes, eroded
957D2	Elco-Atlas silt loams, 10 to 18 percent slopes, eroded		
957D3	ELCO-ATLAS COMPLEX, 10 TO 18 PERCENT SLOPES, SEVERELY ERODED	957D3	Elco-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded

Soil Correlation Of
Warren County (continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
957D3	Elco-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded		
1405A	Zook silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded	1405A	Zook silty clay 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 silt loam, 0 to 2 percent slopes, overwash, frequently flooded	3107+	Sawmill silt loam, 0 to 2 percent slopes, overwash, frequently flooded
3107+	SAWMILL SILT LOAM, OVERWASH		
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		
3405	ZOOK SILTY CLAY LOAM, FREQUENTLY FLOODED	3405A	Zook silty clay loam, 0 to 2 percent slopes, frequently flooded
3405A	Zook silty clay loam, 0 to 2 percent slopes, frequently flooded		
3415	ORION SILT LOAM, FREQUENTLY FLOODED	3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded
3415A	Orion 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		
7428A	Coffeen silt loam, 0 to 2 percent slopes, rarely flooded	7428A	Coffeen silt loam, 0 to 2 percent slopes, rarely flooded
9017A	Keomah silt loam, terrace, 0 to 2 percent slopes	9017A	Keomah silt loam, terrace, 0 to 2 percent slopes
36B	TAMA SILT LOAM, 2 TO 5 PERCENT SLOPES	9086B	Osco silt loam, terrace, 2 to 5 percent slopes
9086B	Osco silt loam, terrace, 2 to 5 percent slopes		
9279B	Rozetta 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	9279C2	Rozetta silt loam, terrace, 5 to 10 percent slopes, eroded
386B	DOWNNS SILT LOAM, 2 TO 5 PERCENT SLOPES	9675B	Greenbush silt loam, terrace, 2 to 5 percent slopes
9675B	Greenbush silt loam, terrace, 2 to 5 percent slopes		
M-W	Miscellaneous water	M-W	Miscellaneous water
W	Water	W	Water

Series Established by this Correlation: None

Series added to the previous correlated legend: Biggsville, Greenbush, Mannon, Muscatune, Osco, and Spaulding

Series Dropped from the previous correlated legend: Downs, Harpster, Mt. Carroll, Muscatine, Port Byron, Sylvan, and Tama

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

Prior Soil Survey Publication:

Prior soil survey of Warren County, Illinois was published in 1998 as United States Department of Agriculture, Soil Survey of Warren County, Illinois (Illinois, Agricultural Experiment Station Report Number 150

Disposition of Field Sheets:

The 1998 soil maps were 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 Warren County will remain at the state office, be certified for SSURGO at the Kansas Digitizing Unit, and will be provided to the Warren County Board as part of the cost share cooperative agreement.

Instructions for Map Compilation and Map Finishing:

Map recompilation has been completed by the Rock Falls MLRA staff. The compiled maps and supporting documentation are being forwarded to the NRCS Digitizing Unit in Kansas City, Missouri. 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.

The hydrographic data will be compiled, digitized and map finished by the Illinois state office.

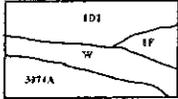
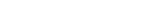
Conventional and Special Symbols Legend:

Only those symbols indicated on the on the attached NRCS-SOILS-37A (5/01) will be shown on the legend and placed on the maps.

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

Soil survey Area: WARREN COUNTY
 State: ILLINOIS

Date: Feb. 2002

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SOIL SURVEY FEATURES		CULTURAL FEATURES (Optional)		HYDROGRAPHIC FEATURES (Optional)	
SOIL DELINEATIONS AND LABELS		BOUNDARIES		Perennial stream	
STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES		County or parish		Unclassified drainage or irrigation ditch	
Non-bedrock escarpment		Field sheet matchline and neatline			
Levee		Public Land Survey System Section Corner Tics			
Short steep slope					
Marsh or Swamp					
Rock outcrop					
Sandy spot					
Severely eroded spot					
Wet spot					
AD HOC FEATURES (See attachment for descriptions)		ROAD EMBLEMS			
LABEL	SYMBOL_ID	SYMBOL			
GSP	26		Federal		
CSP	29		State		
GLA	40				

SPECIAL SYMBOLS FOR SOIL SURVEY AND SSURGO – CODES & DEFINITIONS

MLRA: 108B

COUNTY SUBSET: Warren County, IL

DATE: 7/02

SYMBOL	LABEL	MAJOR CODE	MINOR CODE	NAME	DEFINITION
	ESO	900	206	Non-bedrock escarpment	A relatively continuous and steep slope or cliff, which generally is produced by erosion, but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
	LVS	920	208	Levee	An embankment that confines or controls water, especially one built along the banks of a river to prevent overflow of lowlands.
	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.
	MAR	905	111	Marsh or swamp	A water saturated, very poorly drained area, intermittently or permanently covered by water. Sedges, cattails, and rushes dominate marsh areas. Trees or shrubs dominate swamps. Not used in map units where the named components are poorly or very poorly drained. Typically 1/4 to 2 acres.
	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 or where "Rock outcrop" is a named component of the map unit. Typically 1/4 to 2 acres.
	SAN	900	313	Sandy spot	A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 1/4 to 2 acres.
	ERO	900	314	Severely eroded spot	An area where on average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 1/4 to 2 acres.
	WET	905	330	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 1/4 to 2 acres.
	GSP	998	026	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.
	CSP	998	029	Calcareous spot	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	998	040	Glacial till spot	Areas where the surface layer is loamy glacial till. Stones are often scattered over the surface. Found 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.

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	Map unit name
17A	Keomah silt loam, 0 to 2 percent slopes (Prime farmland if drained)
43A	Ipava silt loam, 0 to 2 percent slopes
43B	Ipava silt loam, 2 to 5 percent slopes
45A	Denny silt loam, 0 to 2 percent slopes (Prime farmland if drained)
51A	Muscatune 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)
68A+	Sable silt loam, 0 to 2 percent slopes, overwash (Prime farmland if drained)
81A	Littleton silt 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
257A	Clarksdale silt loam, 0 to 2 percent slopes (Prime farmland if drained)
275A	Joy silt loam, 0 to 2 percent slopes
278A	Stronghurst silt loam, 0 to 2 percent slopes (Prime farmland if drained)
279B	Rozetta silt loam, 2 to 5 percent slopes
280B	Fayette silt loam, 2 to 5 percent slopes
430B	Raddle silt loam, 2 to 5 percent slopes
671B	Biggsville silt loam, 2 to 5 percent slopes
675B	Greenbush silt loam, 2 to 5 percent slopes
678B	Mannon silt loam, 2 to 5 percent slopes
712A	Spaulding silty clay loam, 0 to 2 percent slopes (Prime farmland if drained)
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)
3107+	Sawmill silt loam, 0 to 2 percent slopes, frequently flooded, overwash (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)
3405A	Zook 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)
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)
7428A	Coffeen silt loam, 0 to 2 percent slopes, rarely flooded
9017A	Keomah silt loam, terrace, 0 to 2 percent slopes
9086B	Oscos silt loam, terrace, 2 to 5 percent slopes
9279B	Rozetta silt loam, terrace, 2 to 5 percent slopes
9675B	Greenbush silt loam, terrace, 2 to 5 percent slopes

**CONVERSION LEGEND FOR
WARREN COUNTY, ILLINOIS
DECEMBER 2001**

Field symbols (1)	Publication symbol	Field symbols (1)	Publication symbol	Field symbols (1)	Publication symbol	Field symbols (1)	Publication symbol
7D3	119D2	86B	86B	280B	280B	895E	895D
8D2	8D2	86B2	86B2			936D2	936D2
8D3	8D3	86C2	86C2	280C2	280C2	936G	936G
8F	8F			280D2	280D2	943D3	943D3
8G	8G	86C3	86C3	280D3	280D3	957D2	957D2
		86D2	86D2	280E2	280D2		
17A	17A	119D2	119D2	386B	675B	957D3	957D3
19D2	280D2	119E2	119E2			1405A ⁽²⁾	1405A
19D3	280D3	134D2	212D2	386B	9675B ⁽³⁾	3074	3074A
36B	86B			386C2	675C2	3074A	3074A
36B	9086B ⁽³⁾	134D3	212D3	430B	430B	3107	3107A
		134F	212F	505G	505G		
36B2	86B2	212D2	212D2	549D2	549D2	3107+	3107+
36C2	86C2	212D3	212D3			3107A	3107A
36C3	86C3	212F	212F	549F	549F	3405	3405A
36D2	86D2			549G	549G	3405A	3405A
41A	51A	250D2	250D2	567C2 ⁽²⁾	567C2	3415	3415A
		257A	257A	567D3	567C2		
43A	43A	259C2	259C2	567D3	567D3	3415A	3415A
43B	43B	259D2	259D2			3451	3451A
45	45A	268B	678B	671B	671B	3451A	3451A
45A	45A			671C2	671C2	7428A ⁽²⁾	7428A
51A	51A	274C2	274C2	675B	675B	9017A	9017A ⁽³⁾
		274D	274D	675C2	675C2		
61A	61A	275A	275A	678B	678B	9086B	9086B ⁽³⁾
67	712A	277B	671B			9279B	9279B ⁽³⁾
68	68A	277C2	671C2	712A	712A	9279C2	9279C2 ⁽³⁾
68+	68A+			802B	802B	9675B	9675B ⁽³⁾
68A	68A	278A	278A	835G	835G	M-W ⁽⁴⁾	M-W
		279B	279B	864	864		
68A+	68A+	279C2	279C2	895D	895D	W	W
81A	81A	279C3	279C3				

- (1) All publication symbols in the 1998 published soil survey legend are represented here.
- (2) These symbols are reinstated from original field sheets during update.
- (3) Terrace landscape position phase not recognized in the 1998 publication.
- (4) The miscellaneous-water map unit is correlated for those areas designated on 1998 atlas sheets as sewage lagoons.

Soil Legend According to Alphabetical Sequence.

Map Symbol	Approved map unit name
259C2	Assumption silt loam, 5 to 10 percent slopes, eroded
259D2	Assumption silt loam, 10 to 18 percent slopes, eroded
61A	Atterberry silt loam, 0 to 2 percent slopes
671B	Biggsville silt loam, 2 to 5 percent slopes
671C2	Biggsville silt loam, 5 to 10 percent slopes, eroded
257A	Clarksdale silt loam, 0 to 2 percent slopes
7428A	Coffeen silt loam, 0 to 2 percent slopes, rarely flooded
45A	Denny silt loam, 0 to 2 percent slopes
505G	Dunbarton silt loam, 18 to 60 percent slopes
835G	Earthen dam
119D2	Elco silt loam, 10 to 18 percent slopes, eroded
119E2	Elco silt loam, 18 to 25 percent slopes, eroded
957D2	Elco-Atlas silt loams, 10 to 18 percent slopes, eroded
957D3	Elco-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
567D3	Elkhart silty clay loam, 10 to 18 percent slopes, severely eroded
280B	Fayette silt loam, 2 to 5 percent slopes
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
280D3	Fayette silty clay loam, 10 to 18 percent slopes, severely eroded
936D2	Fayette-Hickory silt loams, 10 to 18 percent slopes, eroded
936G	Fayette-Hickory silt loams, 35 to 60 percent slopes
895D	Fayette-Westville complex, 10 to 18 percent slopes
675B	Greenbush silt loam, 2 to 5 percent slopes
675C2	Greenbush silt loam, 5 to 10 percent slopes, eroded
9675B	Greenbush silt loam, terrace, 2 to 5 percent slopes
8D3	Hickory 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
43A	Ipava silt loam, 0 to 2 percent slopes
43B	Ipava silt loam, 2 to 5 percent slopes
275A	Joy silt loam, 0 to 2 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes
9017A	Keomah silt loam, terrace, 0 to 2 percent slopes
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
81A	Littleton silt loam, 0 to 2 percent slopes
678B	Mannon silt loam, 2 to 5 percent slopes
549D2	Marseilles silt loam, 10 to 18 percent slopes, eroded
549F	Marseilles silt loam, 18 to 35 percent slopes
549G	Marseilles silt loam, 35 to 60 percent slopes
M-W	Miscellaneous water
51A	Muscataune silt loam, 0 to 2 percent slopes

Map Symbol	Approved map unit name
3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded
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
86D2	Oscos silt loam, 10 to 18 percent slopes, eroded
9086B	Oscos silt loam, terrace, 2 to 5 percent slopes
86C3	Oscos silty clay loam, 5 to 10 percent slopes, severely eroded
864	Pits, quarries
430B	Raddle silt loam, 2 to 5 percent slopes
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
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
279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded
68A+	Sable silt loam, 0 to 2 percent slopes, overwash
68A	Sable silty clay loam, 0 to 2 percent slopes
3107+	Sawmill silt loam, 0 to 2 percent slopes, overwash, frequently flooded
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
274C2	Seaton silt loam, 5 to 10 percent slopes, eroded
274D	Seaton silt loam, 10 to 18 percent slopes
943D3	Seaton-Timula silt loams, 10 to 18 percent slopes, severely eroded
712A	Spaulding silty clay loam, 0 to 2 percent slopes
278A	Stronghurst silt loam, 0 to 2 percent slopes
212D2	Thebes silt loam, 10 to 18 percent slopes, eroded
212F	Thebes silt loam, 18 to 35 percent slopes
212D3	Thebes silty clay loam, 10 to 18 percent slopes, severely eroded
250D2	Velma silt loam, 10 to 18 percent slopes, eroded
W	Water
1405A	Zook silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
3405A	Zook silty clay loam, 0 to 2 percent slopes, frequently flooded

Classification of Pedons Sampled for Laboratory Analysis

The classification of pedons sampled for laboratory analysis for Warren 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 Warren County, Illinois Prepared by Steve Elmer

Slope letter (A) and numerical slope range (0-2%) have been added to poorly drained soil map unit symbols and to flood plain map unit symbols per recently established Illinois MLRA conventions. Also, slope ranges of some map units are changed to agree with agreed to slope ranges of soils on the MLRA 108B legend.

ASSUMPTION SERIES

The typical pedon descriptions for map units 259C2 and 259D2 are taxadjunct to the series as the mollic epipedons are thinner than defined for the series. These pedons classify as fine-silty, mixed, superactive, mesic Mollic Hapludalfs.

OSD pedon #79-073-113 is the Type Location for this series in MLRA108B.

ATLAS SERIES

Map unit 7D3 Atlas Silty Clay Loam has been recorrelated to 119D2 Elco Silt Loam with this correlation. One 7D3 polygon had been previously correlated to join Knox County. These soils are a major component in the Elco-Atlas complex map units. This change will be reflected in the update of Knox County to affect a quality join.

ATTERBERRY SERIES

OSD pedon # 83-011-108 is the Type Location for this series in MLRA108B.

BIGGSVILLE SERIES(Added)

This series was established in Bureau County, Illinois to replace Port Byron soils with seasonally saturated zones within 4 to 6 ft. of the soil surface in MLRAs 108B and 115.

The typical pedon description for map unit 671C2 is taxadjunct to the series as the mollic epipedon is thinner than defined for the series. These pedons classify as fine-silty, mixed, superactive, mesic Mollic Hapludalfs.

OSD pedon # 98-161-024 is the Type Location for this series in MLRA108B.

CLARKSDALE SERIES

OSD pedon # 95-021-010 is the Type Location for this series in MLRA 108B.

COFFEEN SERIES (added)

Map unit 7428A was mapped on the original field sheets, but subsequently correlated to adjacent soils during the previous survey. This map unit is being restored during this update.

OSD pedon #84-195-283 is the Type Location for this series in MLRA 108B.

DENNY SERIES

In Warren County the Denny soils classify as Mollic Epiaqualfs because the increase in clay content is not as abrupt with depth as is defined for the series. These soils are not considered to be taxadjuncts.

OSD pedon # 87-109-064 is the Type Location for this series in MLRA108B.

DOWNS SERIES (Deleted)

These soils as mapped in all the counties within MLRA 108B have seasonally saturated zones within 4 to 6 ft. of the soil surface. This series has been recorrelated to the Greenbush series during the current subset updates.

DUNBARTON SERIES

Pedon # 88-187-050 is the Type Location for this series in MLRA108B.

ELCO SERIES

Pedon # 86-187-073 is the Type Location for this series in MLRA108B.

ELKHART SERIES

The typical pedon descriptions for map units 567C2 and 567D3 are taxadjunct to the series as the mollic epipedons are thinner than defined for the series. These pedons classify as fine-silty, mixed, superactive, mesic Mollic Hapludalfs. Map unit 567C2 was mapped on the original field sheets of the previous soil survey, and are reinstated during the current update project. OSD pedon # 96-107-015 is the Type Location for this series in MLRA108B.

FAYETTE SERIES

Pedon # 87-187-018 is the Type Location for this series in MLRA108B. This type location includes a silt loam subsoil layer, which is not within the current OSD range in characteristics.

GREENBUSH SERIES (Added)

This series was established in Adams County, Illinois to replace the Downs series in MLRA 108B that have seasonally saturated zones within 4 to 6 ft. of the soil surface. OSD pedon # 86-187-078 is the Type Location for this series in MLRAs 108B and 115C.

Map unit (675B) was recorrelated to multiple phases (675B or 9675B) based on differences in landscape position or elevations. Refer to November 1998 'Quality Assurance Review Report'.

HARPSTER SERIES (Deleted)

The Harpster series has been correlated to the Spaulding Series with this update.

HICKORY SERIES

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

IPAVA SERIES

OSD pedon # 78-095-016 is also the Type Location for this series in MLRA108B.

JOY SERIES

Pedon # 83-195-146 is the Type Location for this series in MLRA108B.

KEOMAH SERIES

Pedon # 95-001-023 is the Type Location for MLRA115C and used in this update of this series in MLRA108B.

Map unit (17A) was recorrelated to multiple phases or series (17A or 9017A) based on differences in landscape position or elevations. Refer to November 1998 'Quality Assurance Review Report'.

LAWSON SERIES

Pedon # 84-011-012 is the Type Location for this series in MLRA108B.

LITTLETON SERIES

Pedon # 85-195-398 is the Type Location for this series in MLRA108B.

MANNON SERIES (Added)

This series was established in Mercer County to replace the Mt. Carroll series in MLRA 108B that have seasonally saturated zones within 4 to 6 ft. of the soil surface. OSD pedon # 82-131-044 is the Type Location for this series in MLRA108B.

MARSEILLES SERIES

OSD pedon # 85-011-030 is the Type Location for this series in MLRA108B.

MT. CARROLL (Deleted)

These soils as mapped have seasonally saturated zones within 4 to 6 ft. of the soil surface. This series has been recorrelated to the Mannon series in MLRA 108B.

MUSCATINE SERIES (Deleted)

This former taxadjunct is recorrelated to the Muscatine series in MLRA108B update correlations.

MUSCATUNE SERIES (Added)

This series replaces the Muscatine series in MLRA 108B updates. Classification is fine-silty, mixed, superactive, mesic Aquic Argiudolls. Pedon # 86-187-100 is the Type Location for this series in MLRA108B.

ORION SERIES

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

Pedon # 84-011-086 is the Type Location for MLRA108B.

OSCO SERIES (Added)

This series replaces the Tama series that have seasonally saturated zones within 4 to 6 ft. of the soil surface. This is consistent with correlation decisions made in recent MLRA 108B updates. The typical pedon descriptions for map units 86B2, 86C2, 86C3, and 86D2 are taxadjunct to the

series as the mollic epipedons are thinner than defined for the series. These pedons classify as fine-silty, mixed, superactive, mesic Mollic Hapludalfs.

Map unit 86B was recorrelated to multiple phases (86B or 9086B) based on differences in landscape position or elevations. Refer to November 1998 'Quality Assurance Review Report'. OSD pedon # 56-015-002 is the Type Location for this series in MLRA108B.

PORT BYRON SERIES (Deleted)

All map units of Port Byron in Warren County have been recorrelated to Biggsville series due to seasonally saturated zones within 4 to 6 ft. of the soil surface. This is consistent with correlation decisions in MLRA108B.

RADDLE SERIES

Pedon # 82-195-063 is the Type Location for this series in MLRA108B.

RADFORD SERIES

Pedon # 83-011-049 is the Type Location for this series in MLRA108B.

ROZETTA SERIES

Map units (279B & 279C2) were recorrelated to multiple phases (279B and 9279B, 279C2 and 9279C2) based on differences in landscape position or elevations. Refer to November 1998 'Quality Assurance Review Report'.

OSD pedon # 96-177-012 is the Type Location for this series in MLRA108B.

SABLE SERIES

The OSD type location is in Warren County. OSD pedon # 57-187-001 is the Type Location for this series in MLRA108B.

SAWMILL SERIES

OSD pedon # 96-167-018 is the Type Location for this series in MLRA108B.

SEATON SERIES

Pedon # 83-195-120 is the Type Location for this series in MLRA108B.

SPAULDING SERIES (Added)

The Harpster series on upland deep loess summit positions has been correlated to the Spaulding Series with this update. OSD pedon # 99-167-004 is the Type location for this series in MLRA 108B.

STRONGHURST SERIES

Pedon # 82-011-072 is the Type Location for this series in MLRA108B.

SYLVAN SERIES (Deleted)

Only two delineations, of 5 acres each, (19D2 and 19D3) were in the previous Warren County soil survey. These map units were added to join Mercer County. When Mercer County was updated, it was recommended to recorrelate these two polygons in Warren County to Fayette series map units 280D2 and 280D3 to facilitate a quality join. These map units were changed in this update of Warren County as per that recommendation.

TAMA SERIES (Deleted)

Tama soils in this survey area have been recorrelated to the Osco Series. These soils have seasonally saturated zones within 4 to 6 ft. of the soil surface. This is consistent with correlation decisions in MLRA108B.

THEBES SERIES (Added)

Map units 212D2, 212D3, and 212F were originally mapped on the original field sheets of the previous soil survey, as Camden series map units 134D2, 134D3, and 134F. The original Camden map units were correlated off the legend during the final correlation of the previous soil survey. These map units are being restored during this current update, because of the significance of their parent material and interpretive differences. These map units, however, occupy upland hillside positions, and are developed in eolian materials rather than loess over outwash. Polygons on similar positions in nearby Mercer and Rock Island Counties have subsequently been correlated to the Thebes series during recent updates. The classification of the Thebes series was amended to reflect non-contrasting particle size, which is appropriate for these map units in Warren County as well. The classification is fine-silty, mixed, superactive, mesic Typic Hapludalfs. OSD pedon # 98-107-200 is the Type Location for this series in MLRA 108B.

TIMULA SERIES

Pedon # 83-195-117 is the Type Location for this series in MLRA108B.

VELMA SERIES

The typical pedon description for map unit 250D2 is taxadjunct to the series as the mollic epipedon is thinner than defined for the series. These pedons classify as fine-loamy, mixed, superactive, mesic Mollic Hapludalfs.

Pedon # 98-073-203 is the Type Location for this series in MLRA108B.

WESTVILLE SERIES

Pedon # 77-073-012 is the Type Location for this series in MLRA108B.

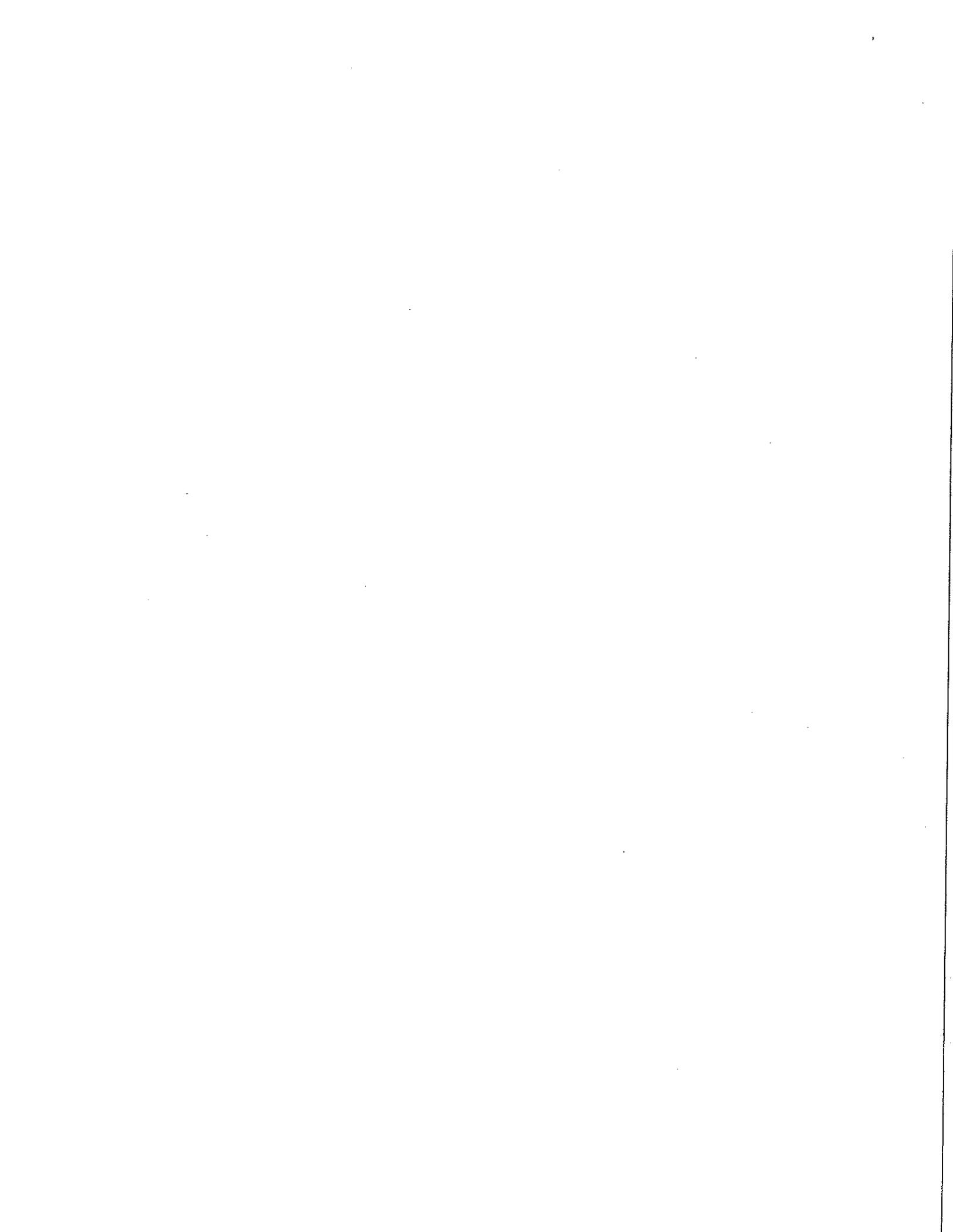
ZOOK SERIES

Pedon # 87-187-006 is the Type Location for this series in MLRA108B. Map unit 1405A has been restored from the original field sheets from the previous soil survey during this update.

Classification of the Soils of Warren County, Illinois

(A single asterisk in the first column indicates all map unit major components are taxadjunct to the series. A double asterisk in the first column indicates only some of the map unit major components are taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
*Assumption	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Atlas	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Atterberry	Fine-silty, mixed, superactive, mesic Udollic Endoaqualfs
**Biggsville	Fine-silty, mixed, superactive, mesic Typic Hapludolls
Clarksdale	Fine, smectitic, mesic Udollic Endoaqualfs
Coffeen	Coarse-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Denny	Fine, smectitic, mesic Mollic Albaqualfs
Dunbarton	Clayey, smectitic, mesic Lithic Hapludalfs
Elco	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
*Elkhart	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Fayette	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Greenbush	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Hickory	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Ipava	Fine, smectitic, mesic Aquic Argiudolls
Joy	Fine-silty, mixed, superactive, mesic Aquic Hapludolls
Keomah	Fine, smectitic, mesic Aeric Endoaqualfs
Lawson	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Littleton	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Mannon	Fine-silty, mixed, superactive, mesic Mollic Hapludalfs
Marseilles	Fine-silty, mixed, active, mesic Typic Hapludalfs
Muscature	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
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
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
Sawmill	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Seaton	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Spaulding	Fine-silty, mixed, superactive, mesic Typic Calciaquolls
Stronghurst	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Thebes	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Timula	Coarse-silty, mixed, superactive, mesic Typic Eutrudepts
*Velma	Fine-loamy, mixed, superactive, mesic Typic Argiudolls
Westville	Fine-loamy, mixed, superactive, mesic Typic Hapludalfs
Zook	Fine, smectitic, mesic Cumulic Vertic Endoaquolls

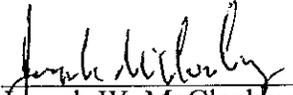


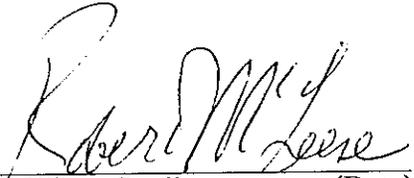
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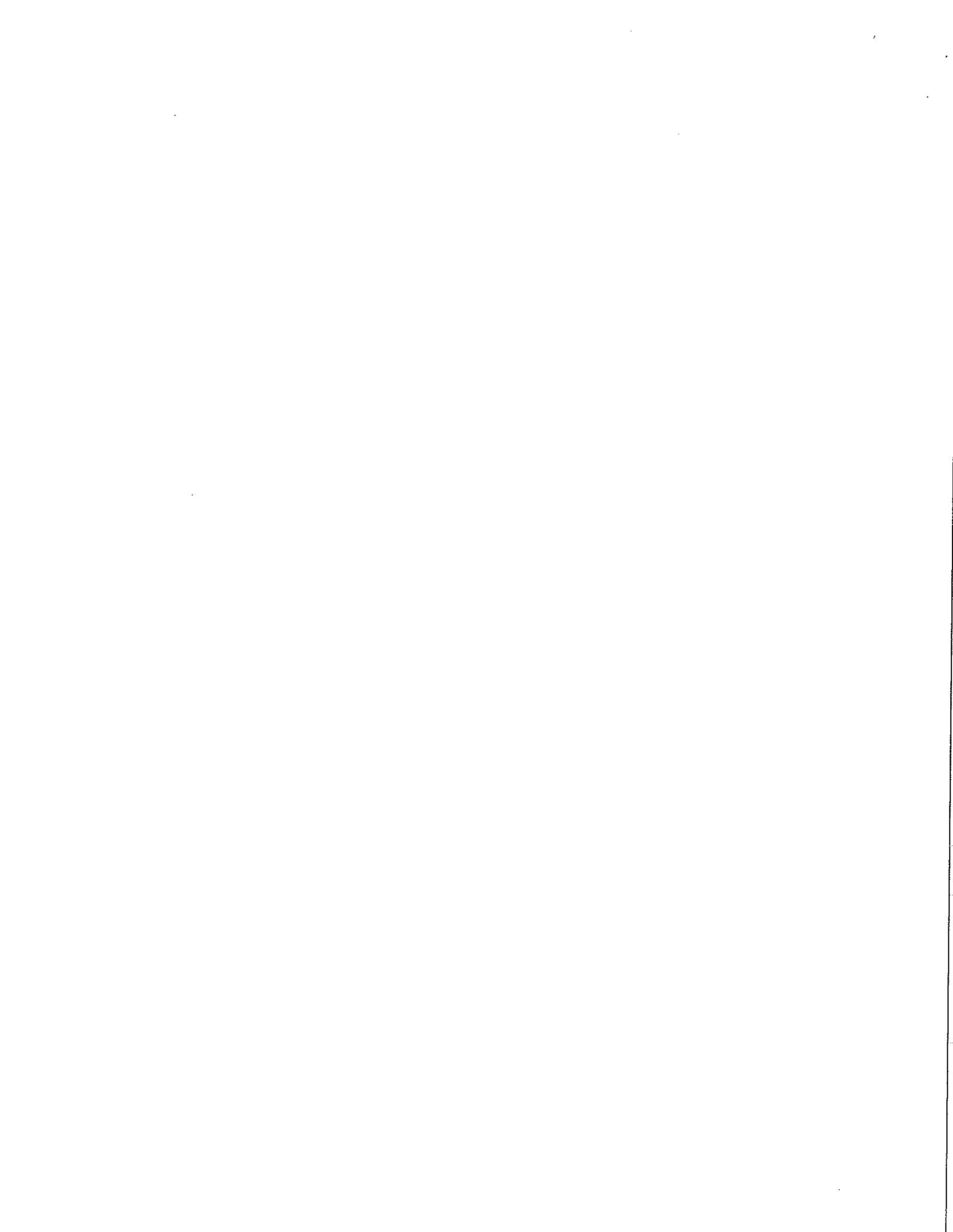
The MO Leader certifies that:

1. This soil survey update joins the following adjacent modern soil surveys: McDonough (Published - 11/97, update in progress), Knox (Published - 10/86); Fulton (Certified - publication 2002, projected), Mercer (Update certified 3/02), Henderson (Out-of-date, update in progress). Joining has been checked with the published and update detailed soil maps in all adjoining counties. New names and symbols were added and some names and symbols were deleted. All changes agree with the MLRA 108B soil identification legend.
2. Interpretations are being coordinated with adjoining survey areas. The manuscript will be generated using the MUG (map unit generator) program, therefore, the text and tables will be consistent with the NASIS data. Exceptions to perfect agreement between the NASIS data and the manuscript will be as 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 Warren 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 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:

 8.20.02
Joseph W. McCloskey (Date)
Region 10 Team Leader

 8/26/02
William Gradle (Date)
State Conservationist *acting*



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