

**United States Department of Agriculture  
Natural Resources Conservation Service**

**Classification and Correlation  
of the Soils of  
Union County, Illinois**

**A Subset of MLRA 115B & 120**

**OCTOBER 2001**

**This correlation was prepared by Gary Struben, Soil Data Quality Specialist (SDQS), Indianapolis, Indiana; John C. Doll, MLRA Soil Survey Coordinator, Champaign, Illinois; and Dwayne Williams, NRCS Soil Scientist, Carbondale, Illinois. A final correlation conference was held in December 2000. Those participating in the conference were Sam Indorante, MLRA Project Leader; Ed Workman, NRCS Soil Conservationist; Jon Bathgate NRCS GIS Specialist; Matt McCauley, NRCS Resource Soil Scientist and Bryan Fitch, USFS Soil Scientist. This document was prepared as part of the update of the Soil Survey of Union County, a subset of MLRA 115B and MLRA 120.**

**This correlation is based on decisions made at that conference. Decisions were based on the documentation of field investigations, transect data, field notes, pedon descriptions, survey field notes, special studies and laboratory data, published Union County soil maps, the descriptive legend in the “Classification and Correlation of the Soils of Union County, Illinois” – April 1977, and the text and tables in the published Union County Soil Survey Report – 1979.**

**Headnote for detailed soil survey legend:**

**This update of Union County, Illinois is a subset of the Soil Survey of Major Land Resource Areas (MLRA) 115B and 120. Map units and their symbols and special and conventional symbols are consistent between subsets that are being updated. Most mapunit 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, except for the letter “L”, which indicates long duration flooding. A final number of 2 following the slope letter indicates that the soil is moderately eroded, and a number 3 indicates that it is severely eroded. Absence of a number following the slope class indicates that the soil is slightly eroded or non-eroded. Three digit symbols without a slope letter are for miscellaneous areas. Water is identified as “W” and miscellaneous water is identified as “MW”.**

# Soil Correlation of Union County, Illinois

October 2001

Field symbols	Field mapnunit name	Publi- cation symbol	Approved mapnunit name
75B 75C 930F 930G	Drury silt loam, 2 to 5 percent slopes DRURY SILT LOAM, 3 TO 10 PERCENT SLOPES ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	75B	Drury silt loam, 2 to 5 percent slopes
75C 75C 75C2 930F 930G	Drury silt loam, 5 to 10 percent slopes DRURY SILT LOAM, 3 TO 10 PERCENT SLOPES Drury silt loam, 5 to 10 percent slopes, eroded ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	75C	Drury silt loam, 5 to 10 percent slopes
75C 75C3 930F 930G	DRURY SILT LOAM, 3 TO 10 PERCENT SLOPES Drury silt loam, 5 to 10 percent slopes, severely eroded ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	75C3	Drury silt loam, 5 to 10 percent slopes, severely eroded
75C 75D 75D2 75D3 930F 930G	DRURY SILT LOAM, 3 TO 10 PERCENT SLOPES Drury silt loam, 10 to 18 percent slopes Drury silt loam, 10 to 18 percent slopes, eroded Drury silt loam, 10 to 18 percent slopes, severely eroded ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	75D	Drury silt loam, 10 to 18 percent slopes
79B 308B2 930F 930G	Menfro silt loam, 2 to 5 percent slopes ALFORD SILT LOAM, 2 TO 6 PERCENT SLOPES, ERODED ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	79B	Menfro silt loam, 2 to 5 percent slopes
79C2 308B2 308C2 308C3 930F 930G	Menfro silt loam, 5 to 10 percent slopes, eroded ALFORD SILT LOAM, 2 TO 6 PERCENT SLOPES, ERODED ALFORD SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED ALFORD SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	79C2	Menfro silt loam, 5 to 10 percent slopes, eroded
79C3 308B2 308C2 308C3 930F 930G	Menfro silt loam, 5 to 10 percent slopes, severely eroded ALFORD SILT LOAM, 2 TO 6 PERCENT SLOPES, ERODED ALFORD SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED ALFORD SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	79C3	Menfro silt loam, 5 to 10 percent slopes, severely eroded
79D2 308C2 308C3 308D2 308D3 930F 930G	Menfro silt loam, 10 to 18 percent slopes, eroded ALFORD SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED ALFORD SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED ALFORD SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED ALFORD SILTY CLAY LOAM, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	79D2	Menfro silt loam, 10 to 18 percent slopes, eroded

# Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publication symbol	Approved mapnunit name
79D3 308C2 308C3 308D2 308D3 930F 930G	Menfro silt loam, 10 to 18 percent slopes, severely eroded ALFORD SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED ALFORD SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED ALFORD SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED ALFORD SILTY CLAY LOAM, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	79D3	Menfro silt loam, 10 to 18 percent slopes, severely eroded
79E 79E2 214E 214E3 308E 308E3 930F 930G	Menfro silt loam, 18 to 25 percent slopes Menfro silt loam, 18 to 25 percent slopes, eroded HOSMER SILT LOAM, 18 TO 30 PERCENT SLOPES HOSMER SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED ALFORD SILT LOAM, 18 TO 30 PERCENT SLOPES ALFORD SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	79E	Menfro silt loam, 18 to 25 percent slopes
79E2 214E 214E3 308E 308E3 930F 930G	Menfro silt loam, 18 to 25 percent slopes, eroded HOSMER SILT LOAM, 18 TO 30 PERCENT SLOPES HOSMER SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED ALFORD SILT LOAM, 18 TO 30 PERCENT SLOPES ALFORD SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	79E2	Menfro silt loam, 18 to 25 percent slopes, eroded
79E3 214E 214E3 308E 308E3 930F 930G	Menfro silt loam, 18 to 25 percent slopes, severely eroded HOSMER SILT LOAM, 18 TO 30 PERCENT SLOPES HOSMER SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED ALFORD SILT LOAM, 18 TO 30 PERCENT SLOPES ALFORD SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	79E3	Menfro silt loam, 18 to 25 percent slopes, severely eroded
79F 214E 214E3 308E 308E3 930F 930G	Menfro silt loam, 25 to 35 percent slopes HOSMER SILT LOAM, 18 TO 30 PERCENT SLOPES HOSMER SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED ALFORD SILT LOAM, 18 TO 30 PERCENT SLOPES ALFORD SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	79F	Menfro silt loam, 25 to 35 percent slopes
9G 99G 930G 940E 977F	Sandstone Rock Land, 35 to 90 percent slopes Sandstone and Limestone Rock Land, 35 to 90 percent slopes GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES ZANESVILLE-WESTMORE SILT LOAMS, 15 TO 30 PERCENT SLOPES WELLSTON-NEOTOMA COMPLEX, 20 TO 35 PERCENT SLOPES	99G	Sandstone and Limestone Rock Land, 35 to 90 percent slopes
164A 164A	STOY SILT LOAM, 0 TO 3 PERCENT SLOPES Stoy silt loam, 0 to 2 percent slopes	164A	Stoy silt loam, 0 to 2 percent slopes

# Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publication symbol	Approved mapnunit name
164A 164B 164C2 164C3	STOY SILT LOAM, 0 TO 3 PERCENT SLOPES Stoy silt loam, 2 to 5 percent slopes Stoy silt loam, 5 to 10 percent slopes, eroded Stoy silt loam, 5 to 10 percent slopes, severely eroded	164B	Stoy silt loam, 2 to 5 percent slopes
214B 214B	HOSMER SILT LOAM, 2 TO 6 PERCENT SLOPES Hosmer silt loam, 2 to 5 percent slopes	214B	Hosmer silt loam, 2 to 5 percent slopes
214B 214C2 214C2 214C3	HOSMER SILT LOAM, 2 TO 6 PERCENT SLOPES HOSMER SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED Hosmer silt loam, 5 to 10 percent slopes, eroded HOSMER SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED	214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded
214B 214C2 214C3 214C3	HOSMER SILT LOAM, 2 TO 6 PERCENT SLOPES HOSMER SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED HOSMER SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED Hosmer silt loam, 5 to 10 percent slopes, severely eroded	214C3	Hosmer silt loam, 5 to 10 percent slopes, severely eroded
214C2 214C3 214D2 214D2 214D3	HOSMER SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED HOSMER SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED HOSMER SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED Hosmer silt loam, 10 to 18 percent slopes, eroded HOSMER SILTY CLAY LOAM, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED	214D2	Hosmer silt loam, 10 to 18 percent slopes, eroded
214C2 214C3 214D2 214D3 214D3	HOSMER SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED HOSMER SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED HOSMER SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED Hosmer silt loam, 10 to 18 percent slopes, severely eroded HOSMER SILTY CLAY LOAM, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED	214D3	Hosmer silt loam, 10 to 18 percent slopes, severely eroded
308B2 477B	ALFORD SILT LOAM, 2 TO 6 PERCENT SLOPES, ERODED Winfield silt loam, 2 to 5 percent slopes	477B	Winfield silt loam, 2 to 5 percent slopes
308B2 308C2 308C3 477C2	ALFORD SILT LOAM, 2 TO 6 PERCENT SLOPES, ERODED ALFORD SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED ALFORD SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED Winfield silt loam, 5 to 10 percent slopes, eroded	477C2	Winfield silt loam, 5 to 10 percent slopes, eroded
308B2 308C2 308C3 477C3	ALFORD SILT LOAM, 2 TO 6 PERCENT SLOPES, ERODED ALFORD SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED ALFORD SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED Winfield silt loam, 5 to 10 percent slopes, severely eroded	477C3	Winfield silt loam, 5 to 10 percent slopes, severely eroded

# Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publi- cation symbol	Approved mapnunit name
308C2	ALFORD SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED	477D2	Winfield silt loam, 10 to 18 percent slopes, eroded
308C3	ALFORD SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED		
308D2	ALFORD SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED		
308D3	ALFORD SILTY CLAY LOAM, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED		
477D2	Winfield silt loam, 10 to 18 percent slopes, eroded		
308C2	ALFORD SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED	477D3	Winfield silt loam, 10 to 18 percent slopes, severely eroded
308C3	ALFORD SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED		
308D2	ALFORD SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED		
308D3	ALFORD SILTY CLAY LOAM, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED		
477D3	Winfield silt loam, 10 to 18 percent slopes, severely eroded		
692D	Menfro-Wellston silt loams, 10 to 18 percent slopes	692D	Menfro-Wellston silt loams, 10 to 18 percent slopes
692D2	Menfro-Wellston silt loams, 10 to 18 percent slopes, eroded		
852E	ALFORD-WELLSTON SILT LOAMS, 15 TO 30 PERCENT SLOPES		
692D2	Menfro-Wellston silt loams, 10 to 18 percent slopes, eroded	692D2	Menfro-Wellston silt loams, 10 to 18 percent slopes, eroded
692D3	Menfro-Wellston silt loams, 10 to 18 percent slopes, severely eroded		
852E	ALFORD-WELLSTON SILT LOAMS, 15 TO 30 PERCENT SLOPES		
692E2	Menfro-Wellston silt loams, 18 to 25 percent slopes, eroded	692F	Menfro-Wellston silt loams, 18 to 35 percent slopes
692E3	Menfro-Wellston silt loams, 18 to 25 percent slopes, severely eroded		
692F	Menfro-Wellston silt loams, 18 to 35 percent slopes		
852E	ALFORD-WELLSTON SILT LOAMS, 15 TO 30 PERCENT SLOPES		
694D	Menfro-Baxter complex, 10 to 18 percent slopes	694D	Menfro-Baxter complex, 10 to 18 percent slopes
694D2	Menfro-Baxter complex, 10 to 18 percent slopes, eroded		
930F	ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES		
930G	GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES		
954E	ALFORD-BAXTER COMPLEX, 15 TO 30 PERCENT SLOPES		
694D2	Menfro-Baxter complex, 10 to 18 percent slopes, eroded	694D2	Menfro-Baxter complex, 10 to 18 percent slopes, eroded
694D3	Menfro-Baxter complex, 10 to 18 percent slopes, severely eroded		
930F	ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES		
930G	GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES		
954E	ALFORD-BAXTER COMPLEX, 15 TO 30 PERCENT SLOPES		
694E2	Menfro-Baxter complex, 18 to 25 percent slopes, eroded	694F	Menfro-Baxter complex, 18 to 35 percent slopes
694E3	Menfro-Baxter complex, 18 to 25 percent slopes, severely eroded		
694F	Menfro-Baxter complex, 18 to 35 percent slopes		
930F	ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES		
930G	GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES		
954E	ALFORD-BAXTER COMPLEX, 15 TO 30 PERCENT SLOPES		
801A	Orthents, silty, 0 to 2 percent slopes	801B	Orthents, silty, undulating
801B	ORTHENTS, SILTY, 1 TO 5 PERCENT SLOPES		
801B	Orthents, silty, undulating		

## Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publication symbol	Approved mapnunit name
802B 802C 802D 802D 802E	Orthents, loamy, 2 to 5 percent slopes Orthents, loamy, 5 to 10 percent slopes ORTHENTS, LOAMY, 2 TO 20 PERCENT SLOPES Orthents, loamy, hilly Orthents, loamy, 18 to 25 percent slopes	802D	Orthents, loamy, hilly
832E2 832E3 832F 930F 930G	Menfro-Clarksville complex, 18 to 25 percent slopes, eroded Menfro-Clarksville complex, 18 to 25 percent slopes, severely eroded Menfro-Clarksville complex, 18 to 35 percent slopes ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	832F	Menfro-Clarksville complex, 18 to 35 percent slopes
832G 930F 930G	Clarksville-Menfro complex, 35 to 70 percent slopes ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	832G	Clarksville-Menfro complex, 35 to 70 percent slopes
833E2 833E3 833F 930F 930G	Menfro-Goss complex, 18 to 25 percent slopes, eroded Menfro-Goss complex, 18 to 25 percent slopes, severely eroded Menfro-Goss complex, 18 to 35 percent slopes ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	833F	Menfro-Goss complex, 18 to 35 percent slopes
833G 930F 930G	Goss-Menfro complex, 35 to 70 percent slopes ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES	833G	Goss-Menfro complex, 35 to 70 percent slopes
834E2 834E3 834F 854E2 854E3 854F 940E	Wellston-Westmore silt loams, 18 to 25 percent slopes, eroded Wellston-Westmore silt loams, 18 to 25 percent slopes, severely eroded Wellston-Westmore silt loams, 18 to 35 percent slopes Menfro-Westmore silt loams, 18 to 25 percent slopes, eroded Menfro-Westmore silt loams, 18 to 25 percent slopes, severely eroded Menfro-Westmore silt loams, 18 to 35 percent slopes ZANESVILLE-WESTMORE SILT LOAMS, 15 TO 30 PERCENT SLOPES	834F	Wellston-Westmore silt loams, 18 to 35 percent slopes
834E2 834E3 834F 834G 940E	Wellston-Westmore silt loams, 18 to 25 percent slopes, eroded Wellston-Westmore silt loams, 18 to 25 percent slopes, severely eroded Wellston-Westmore silt loams, 18 to 35 percent slopes Wellston-Westmore silt loams, 35 to 70 percent slopes ZANESVILLE-WESTMORE SILT LOAMS, 15 TO 30 PERCENT SLOPES	834G	Wellston-Westmore silt loams, 35 to 70 percent slopes
864 864	Pits, quarries PITS, QUARRY, LIMESTONE	864	Pits, quarries
864 865	PITS, QUARRY, LIMESTONE Pits, gravel	865	Pits, gravel
940D 940D2 940E	Zanesville-Westmore silt loams, 10 to 18 percent slopes Zanesville-Westmore silt loams, 10 to 18 percent slopes, eroded ZANESVILLE-WESTMORE SILT LOAMS, 15 TO 30 PERCENT SLOPES	940D	Zanesville-Westmore silt loams, 10 to 18 percent slopes

# Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publi- cation symbol	Approved mapnunit name
940D2	Zanesville-Westmore silt loams, 10 to 18 percent slopes, eroded	940D2	Zanesville-Westmore silt loams, 10 to 18 percent slopes, eroded
940D3	Zanesville-Westmore silt loams, 10 to 18 percent slopes, severely eroded		
940E	ZANESVILLE-WESTMORE SILT LOAMS, 15 TO 30 PERCENT SLOPES		
977E2	Wellston-Neotoma complex, 18 to 25 percent slopes, eroded	977F	Wellston-Neotoma complex, 18 to 35 percent slopes
977E3	Wellston-Neotoma complex, 18 to 25 percent slopes, severely eroded		
977F	WELLSTON-NEOTOMA COMPLEX, 20 TO 35 PERCENT SLOPES		
977F	Wellston-Neotoma complex, 18 to 35 percent slopes		
977F	WELLSTON-NEOTOMA COMPLEX, 20 TO 35 PERCENT SLOPES	977G	Wellston-Neotoma complex, 35 to 70 percent slopes
977F	Wellston-Neotoma complex, 18 to 35 percent slopes		
977G	Wellston-Neotoma complex, 35 to 70 percent slopes		
420	PIOPOLIS SILTY CLAY LOAM	1288A	Petrolia silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
1288A	Petrolia silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded		
334	BIRDS SILT LOAM	1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded
1334	BIRDS SILT LOAM, WET		
1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded		
1420A	Piopolis silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded		
422	CAPE SILTY CLAY LOAM	1426A	Karnak silty clay, undrained, 0 to 2 percent slopes, frequently flooded
426	KARNAK SILTY CLAY		
1071A	Darwin silty clay, undrained, 0 to 2 percent slopes, frequently flooded		
1085A	Jacob silty clay, undrained, 0 to 2 percent slopes, frequently flooded		
1422A	Cape silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded		
1426	KARNAK SILTY CLAY, WET		
1426A	Karnak silty clay, undrained, 0 to 2 percent slopes, frequently flooded		
4426	KARNAK CLAY, PONDED		
71	DARWIN SILTY CLAY	3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded
3071	DARWIN SILTY CLAY, FREQUENTLY FLOODED		
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded		
71	DARWIN SILTY CLAY	3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration
3071	DARWIN SILTY CLAY, FREQUENTLY FLOODED		
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded		
3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration		
3085A	Jacob silty clay, 0 to 2 percent slopes, frequently flooded		

## Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publi- cation symbol	Approved mapnunit name
92	SARPY LOAMY FINE SAND	3092BL	Sarpy loamy fine sand, 1 to 8 percent slopes, frequently flooded, long duration
3092	SARPY FINE SAND, FREQUENTLY FLOODED		
3092A*	Sarpy loamy fine sand, 0 to 2 percent slopes, frequently flooded		
3092B*	Sarpy fine sand, 2 to 5 percent slopes, frequently flooded		
3092BL	Sarpy loamy fine sand, 1 to 8 percent slopes, frequently flooded, long duration		
3092C*	Sarpy fine sand, 5 to 10 percent slopes, frequently flooded		
162	GORHAM SILTY CLAY LOAM	3162L	Gorham silty clay loam, 0 to 3 percent slopes, frequently flooded, long duration
3162A	Gorham silty clay loam, 0 to 2 percent slopes, frequently flooded		
3162B	Gorham silty clay loam, 2 to 5 percent slopes, frequently flooded		
3162L	Gorham silty clay loam, 0 to 3 percent slopes, frequently flooded, long duration		
180	DUPO SILT LOAM	3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded		
180	DUPO SILT LOAM	3180L	Dupo silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded		
3180L	Dupo silt loam, 0 to 2 percent slopes, frequently flooded, long duration		
420	PIOPOLIS SILTY CLAY LOAM	3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded		
3420A	Piopolis silty clay loam, 0 to 2 percent slopes, frequently flooded		
8288A	Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded		
331	HAYMOND SILT LOAM	3331A	Haymond silt loam, 0 to 3 percent slopes, frequently flooded
3331A	Haymond silt loam, 0 to 3 percent slopes, frequently flooded		
3331B	Haymond silt loam, 2 to 5 percent slopes, frequently flooded		
331	HAYMOND SILT LOAM	3331L	Haymond silt loam, 0 to 3 percent slopes, frequently flooded, long duration
3331A	Haymond silt loam, 0 to 3 percent slopes, frequently flooded		
3331B	Haymond silt loam, 2 to 5 percent slopes, frequently flooded		
3331L	Haymond silt loam, 0 to 3 percent slopes, frequently flooded, long duration		
333	WAKELAND SILT LOAM	3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded		
333	WAKELAND SILT LOAM	3333L	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded		
3333L	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded, long duration		

## Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publi- cation symbol	Approved mapnunit name
334	BIRDS SILT LOAM	3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded
1334	BIRDS SILT LOAM, WET		
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded		
334	BIRDS SILT LOAM	3334L	Birds silt loam, 0 to 2 percent slopes, frequently flooded, long duration
1334	BIRDS SILT LOAM, WET		
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded		
3334L	Birds silt loam, 0 to 2 percent slopes, frequently flooded, long duration		
3420A	Piopolis silty clay loam, 0 to 2 percent slopes, frequently flooded		
422	CAPE SILTY CLAY LOAM	3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded
426	KARNAK SILTY CLAY		
1426	KARNAK SILTY CLAY, WET		
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded		
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded		
4426	KARNAK CLAY, PONDED		
426	KARNAK SILTY CLAY	3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration
1426	KARNAK SILTY CLAY, WET		
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded		
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded		
3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration		
4426	KARNAK CLAY, PONDED		
456	WARE LOAM	3456B	Ware fine sandy loam, 1 to 6 percent slopes, frequently flooded
3456	WARE FINE SANDY LOAM, FREQUENTLY FLOODED		
3456A*	Ware fine sandy loam, 0 to 2 percent slopes, frequently flooded		
3456B	Ware fine sandy loam, 1 to 6 percent slopes, frequently flooded		
590	CAIRO SILTY CLAY	3590L	Cairo silty clay, 0 to 2 percent slopes, frequently flooded, long duration
1590A*	Cairo silty clay, undrained, 0 to 2 percent slopes, frequently flooded		
1590B*	Cairo silty clay, undrained, 2 to 5 percent slopes, frequently flooded		
3589A	Bowdre silty clay, 0 to 2 percent slopes, frequently flooded		
3589B	Bowdre silty clay, 2 to 5 percent slopes, frequently flooded		
3589C	Bowdre silty clay, 5 to 10 percent slopes, frequently flooded		
3590	CAIRO SILTY CLAY, FREQUENTLY FLOODED		
3590A*	Cairo silty clay, 0 to 2 percent slopes, frequently flooded		
3590B*	Cairo silty clay, 2 to 5 percent slopes, frequently flooded		
3590L	Cairo silty clay, 0 to 2 percent slopes, frequently flooded, long duration		
3682	MEDWAY SILTY CLAY LOAM, FREQUENTLY FLOODED	3682BL	Medway silty clay loam, 1 to 6 percent slopes, frequently flooded, long duration
3682A*	Medway silty clay loam, 0 to 2 percent slopes, frequently flooded		
3682BL	Medway silty clay loam, 1 to 6 percent slopes, frequently flooded, long duration		

## Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publi- cation symbol	Approved mapnunit name
5079B2 5308D	Menfro silt loam, karst, 2 to 5 percent slopes, eroded ALFORD SOILS, KARST, 2 TO 20 PERCENT SLOPES	5079B2	Menfro silt loam, karst, 2 to 5 percent slopes, eroded
5079C3 5308D	Menfro silt loam, karst, 5 to 10 percent slopes, severely eroded ALFORD SOILS, KARST, 2 TO 20 PERCENT SLOPES	5079C3	Menfro silt loam, karst, 5 to 10 percent slopes, severely eroded
5079D3 5308D	Menfro silt loam, karst, 10 to 18 percent slopes, severely eroded ALFORD SOILS, KARST, 2 TO 20 PERCENT SLOPES	5079D3	Menfro silt loam, karst, 10 to 18 percent slopes, severely eroded
214E 214E3 308E 308E3	HOSMER SILT LOAM, 18 TO 30 PERCENT SLOPES HOSMER SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED ALFORD SILT LOAM, 18 TO 30 PERCENT SLOPES ALFORD SILTY CLAY LOAM, 18 TO 30 PERCENT SLOPES, SEVERELY ERODED	5079E3	Menfro silt loam, karst, 18 to 25 percent slopes, severely eroded
5079E3 5308D	Menfro silt loam, karst, 18 to 25 percent slopes, severely eroded ALFORD SOILS, KARST, 2 TO 20 PERCENT SLOPES		
214B 214C2 214C3	HOSMER SILT LOAM, 2 TO 6 PERCENT SLOPES HOSMER SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED HOSMER SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED	5214B2	Hosmer silt loam, karst, 2 to 5 percent slopes, eroded
5214B2	Hosmer silt loam, karst, 2 to 5 percent slopes, eroded		
214C2 214C3	HOSMER SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED HOSMER SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED	5214C3	Hosmer silt loam, karst, 5 to 10 percent slopes, severely eroded
5214C3	Hosmer silt loam, karst, 5 to 10 percent slopes, severely eroded		
214C2 214C3 214D2 214D3	HOSMER SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED HOSMER SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED HOSMER SILT LOAM, 12 TO 18 PERCENT SLOPES, ERODED HOSMER SILTY CLAY LOAM, 12 TO 18 PERCENT SLOPES, SEVERELY ERODED	5214D3	Hosmer silt loam, karst, 10 to 18 percent slopes, severely eroded
5214D3	Hosmer silt loam, karst, 10 to 18 percent slopes, severely eroded		
5079B2 5079C3 5079D3 5079E3 5214B2 5214C3 5214D3 5308D 5333A	Menfro silt loam, karst, 2 to 5 percent slopes, eroded Menfro silt loam, karst, 5 to 10 percent slopes, severely eroded Menfro silt loam, karst, 10 to 18 percent slopes, severely eroded Menfro silt loam, karst, 18 to 25 percent slopes, severely eroded Hosmer silt loam, karst, 2 to 5 percent slopes, eroded Hosmer silt loam, karst, 5 to 10 percent slopes, severely eroded Hosmer silt loam, karst, 10 to 18 percent slopes, severely eroded ALFORD SOILS, KARST, 2 TO 20 PERCENT SLOPES Wakeland silt loam, karst, 0 to 2 percent slopes	5333A	Wakeland silt loam, karst, 0 to 2 percent slopes

## Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publi- cation symbol	Approved mapnunit name
834E2	Wellston-Westmore silt loams, 18 to 25 percent slopes, eroded	5834F	Wellston-Westmore silt loams, karst, 18 to 35 percent slopes
834E3	Wellston-Westmore silt loams, 18 to 25 percent slopes, severely eroded		
834F	Wellston-Westmore silt loams, 18 to 35 percent slopes		
5834F	Wellston-Westmore silt loams, karst, 18 to 35 percent slopes		
71	DARWIN SILTY CLAY	8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded
3071	DARWIN SILTY CLAY, FREQUENTLY FLOODED		
8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded		
85	JACOB SILTY CLAY	8085A	Jacob silty clay, 0 to 2 percent slopes, occasionally flooded
8085A	Jacob silty clay, 0 to 2 percent slopes, occasionally flooded		
92	SARPY LOAMY FINE SAND	8092B	Sarpy loamy fine sand, 1 to 8 percent slopes, occasionally flooded
3092	SARPY FINE SAND, FREQUENTLY FLOODED		
8092B	Sarpy loamy fine sand, 1 to 8 percent slopes, occasionally flooded		
162	GORHAM SILTY CLAY LOAM	8162A	Gorham silty clay loam, 0 to 3 percent slopes, occasionally flooded
8162A	Gorham silty clay loam, 0 to 3 percent slopes, occasionally flooded		
8162B	Gorham silty clay loam, 2 to 5 percent slopes, occasionally flooded		
180	DUPO SILT LOAM	8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded		
284A	TICE SILTY CLAY LOAM, 0 TO 3 PERCENT SLOPES	8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded		
3284B	Tice silty clay loam, 2 to 5 percent slopes, frequently flooded		
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded		
8284B	Tice silty clay loam, 2 to 5 percent slopes, occasionally flooded		
331	HAYMOND SILT LOAM	8331A	Haymond silt loam, 0 to 3 percent slopes, occasionally flooded
8331A	Haymond silt loam, 0 to 3 percent slopes, occasionally flooded		
8331B	Haymond silt loam, 2 to 5 percent slopes, occasionally flooded		
333	WAKELAND SILT LOAM	8333A	Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded
8333A	Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded		
334	BIRDS SILT LOAM	8334A	Birds silt loam, 0 to 2 percent slopes, occasionally flooded
1334	BIRDS SILT LOAM, WET		
8334A	Birds silt loam, 0 to 2 percent slopes, occasionally flooded		

## Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publi- cation symbol	Approved mapnunit name
420	PIOPOLIS SILTY CLAY LOAM	8420A	Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded
8420A	Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded		
422	CAPE SILTY CLAY LOAM	8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded		
422	CAPE SILTY CLAY LOAM	8426A	Karnak clay, 0 to 2 percent slopes, occasionally flooded
426	KARNAK SILTY CLAY		
1426	KARNAK SILTY CLAY, WET		
4426	KARNAK CLAY, PONDED		
8426A	Karnak clay, 0 to 2 percent slopes, occasionally flooded		
427	BURNSIDE LOAM	8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded
930F	ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES		
930G	GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES		
954E	ALFORD-BAXTER COMPLEX, 15 TO 30 PERCENT SLOPES		
977F	WELLSTON-NEOTOMA COMPLEX, 20 TO 35 PERCENT SLOPES		
8427A	Burnside silt loam, 0 to 2 percent slopes, occasionally flooded		
8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded		
456	WARE LOAM	8456B	Ware loam, 1 to 6 percent slopes, occasionally flooded
3456	WARE FINE SANDY LOAM, FREQUENTLY FLOODED		
8456A	Ware loam, 0 to 2 percent slopes, occasionally flooded		
8456B	Ware loam, 1 to 6 percent slopes, occasionally flooded		
475	ELSAH SILT LOAM	8475B	Elsah silt loam, 1 to 4 percent slopes, occasionally flooded
930F	ALFORD-GOSS COMPLEX, 20 TO 35 PERCENT SLOPES		
930G	GOSS-ALFORD COMPLEX, 30 TO 70 PERCENT SLOPES		
954E	ALFORD-BAXTER COMPLEX, 15 TO 30 PERCENT SLOPES		
3475A	Elsah silt loam, 0 to 2 percent slopes, frequently flooded		
3475B	Elsah silt loam, 2 to 5 percent slopes, frequently flooded		
8475A	Elsah silt loam, 0 to 2 percent slopes, occasionally flooded		
8475B	Elsah silt loam, 1 to 4 percent slopes, occasionally flooded		
589	BOWDRE SILTY CLAY	8589B	Bowdre silty clay, 1 to 6 percent slopes, occasionally flooded
8589A	Bowdre silty clay, 0 to 2 percent slopes, occasionally flooded		
8589B	Bowdre silty clay, 1 to 6 percent slopes, occasionally flooded		
8589C	Bowdre silty clay, 5 to 10 percent slopes, occasionally flooded		

## Soil Correlation Of Union County, Illinois - Cont.

Field symbols	Field mapnunit name	Publi- cation symbol	Approved mapnunit name
590	CAIRO SILTY CLAY	8590A	Cairo silty clay, 0 to 2 percent slopes, occasionally flooded
1590A*	Cairo silty clay, undrained, 0 to 2 percent slopes, frequently flooded		
1590B*	Cairo silty clay, undrained, 2 to 5 percent slopes, frequently flooded		
3590	CAIRO SILTY CLAY, FREQUENTLY FLOODED		
3590A*	Cairo silty clay, 0 to 2 percent slopes, frequently flooded		
3590B*	Cairo silty clay, 2 to 5 percent slopes, frequently flooded		
8590A	Cairo silty clay, 0 to 2 percent slopes, occasionally flooded		
682	MEDWAY SILTY CLAY LOAM	8682B	Medway silty clay loam, 1 to 6 percent slopes, occasionally flooded
8682A	Medway silty clay loam, 0 to 2 percent slopes, occasionally flooded		
8682B	Medway silty clay loam, 1 to 6 percent slopes, occasionally flooded		
787	BANLIC SILT LOAM	8787A	Banlic silt loam, 0 to 2 percent slopes, occasionally flooded
8787A	Banlic silt loam, 0 to 2 percent slopes, occasionally flooded		
MW W	Miscellaneous Water Water	MW	Miscellaneous Water
W	WATER	W	Water

\* The asterisk indicates that these mapping units are taxadjuncts to the series.

Some field symbols are correlated to more than one publication symbol. Field checks, geology and slope maps were used to make these correlation decisions. See "Notes to Accompany" for description of these separations.

### **Series Established by this Correlation**

None

### **Series Added from Previously Correlated Legend for Illinois Agricultural Experiment Station Report No.110**

Clarksville, Menfro, Petrolia and Winfield.

### **Series Dropped from Previously Correlated Legend for Illinois Agricultural Experiment Station Report No.110**

Alford

### **Series Made Inactive**

None

### **Cooperators' Name and Credits**

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

### **Prior Soil Survey Publications**

The last soil survey of Union County was completed in 1975 and published by the United States Department of Agriculture, Soil Conservation Service in January 1979 (Also designated as Illinois Agricultural Experiment Station Report No. 110). Reference to the prior soil survey will be included in the literature citation of the manuscript. This update replaces the January 1979 soil survey and provides a digital soil survey with additional data, updated soil interpretations and 1:12,000 scale soil maps on an orthophotographic base.

### **Instructions for Map Compilation, Map Finishing, and Digitizing**

Map compilation is being completed by NRCS field soil scientists and by soil scientists contracted by NRCS. The soil maps will be digitized by the Michigan Digitizing Center.

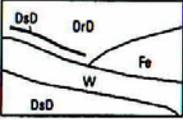
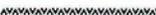
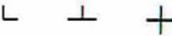
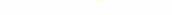
### **Conventional and Special Symbols Legend**

Only those symbols indicated on the NRCS-Soils-37A will be shown on the legend and placed on the soil maps.

# FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

Soil Survey Area: Union County  
State: Illinois

Date: 8/24/01

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL																																																																																																																																								
<b>SOIL SURVEY FEATURES</b>		<b>CULTURAL FEATURES (Optional)</b>		<b>HYDROGRAPHIC FEATURES (Optional)</b>																																																																																																																																									
<p>✓ SOIL DELINEATIONS AND LABELS</p>  <p>STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES</p> <p>Bedrock escarpment --- 204 --- </p> <p>Non-bedrock escarpment --- 206 --- </p> <p>Gully ----- 202 ----- </p> <p>Levee ..... 203 ..... </p> <p>Short steep slope ----- 203 ----- </p> <p>Blowout ----- 307 ----- </p> <p>Borrow pit ----- 309 ----- </p> <p>Clay spot ----- 309 ----- </p> <p>Closed depression ----- 309 ----- </p> <p>Gravel pit ----- 309 ----- </p> <p>Gravelly spot ----- 310 ----- </p> <p>Landfill ----- 310 ----- </p> <p>Lava flow ----- 310 ----- </p> <p>Marsh or swamp ----- 310 ----- </p> <p>Mine or quarry ----- 310 ----- </p> <p>Miscellaneous water ----- 310 ----- </p> <p>Perennial water ----- 310 ----- </p> <p>Rock outcrop ----- 311 ----- </p> <p>Saline spot ----- 312 ----- </p> <p>Sandy spot ----- 313 ----- </p> <p>Severely eroded spot ----- 314 ----- </p> <p>Sinkhole ----- 303 ----- </p> <p>Slide or slip ----- 303 ----- </p> <p>Sodic spot ----- 303 ----- </p> <p>Spill area ----- 303 ----- </p> <p>Stony spot ----- 303 ----- </p> <p>Very stony spot ----- 303 ----- </p> <p>Wet spot ----- 303 ----- </p> <p>Spot of silty alluvial soil in depressions ----- 300 ----- </p>	<p>BOUNDARIES</p> <p>✓ National, state or province ----- </p> <p>✓ 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 areas ----- </p> <p>✓ Field sheet matchline and neatline ----- </p> <p>Public Land Survey System Section Boundary ----- </p> <p>Public Land Survey System Section Corner Tics ----- </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>ROAD EMBLEMS</p> <p>Interstate ----- </p> <p>Federal ----- </p> <p>State ----- </p> <p>County, farm or ranch ----- </p> <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 (compiled only not published) ----- </p> <p>Tank (label) ----- </p> <p>Windmill ----- </p>	<p>✓ Drainage end (indicates direction of flow) ----- </p> <p>✓ Perennial stream ----- </p> <p>Intermittent stream ----- </p> <p>Unclassified stream ----- </p> <p>Perennial drainage or irrigation ditch ----- </p> <p>✓ Intermittent drainage or irrigation ditch ----- </p> <p>Unclassified drainage or irrigation ditch ----- </p> <p>Flood pool line ----- </p> <p>Spring ----- </p> <p>Well, artesian ----- </p> <p>Well, irrigation ----- </p>																																																																																																																																											
<p><b>AD HOC FEATURES (Describe on back)</b></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>&lt;</td><td>---</td><td>25</td><td>⊙</td></tr> <tr><td>---</td><td>2</td><td>□</td><td>---</td><td>26</td><td>⊙</td></tr> <tr><td>---</td><td>3</td><td>□</td><td>---</td><td>26</td><td>⊙</td></tr> <tr><td>---</td><td>4</td><td>⊗</td><td>---</td><td>26</td><td>⊙</td></tr> <tr><td>---</td><td>5</td><td>⊗</td><td>---</td><td>27</td><td>⊙</td></tr> <tr><td>---</td><td>6</td><td>⊗</td><td>---</td><td>28</td><td>⊙</td></tr> <tr><td>---</td><td>7</td><td>⊗</td><td>---</td><td>29</td><td>⊗</td></tr> <tr><td>---</td><td>8</td><td>⊗</td><td>---</td><td>30</td><td>⊗</td></tr> <tr><td>---</td><td>9</td><td>⊗</td><td>---</td><td>31</td><td>⊗</td></tr> <tr><td>---</td><td>10</td><td>⊗</td><td>---</td><td>32</td><td>⊗</td></tr> <tr><td>---</td><td>11</td><td>⊗</td><td>---</td><td>33</td><td>⊗</td></tr> <tr><td>---</td><td>12</td><td>⊗</td><td>---</td><td>34</td><td>⊗</td></tr> <tr><td>---</td><td>13</td><td>⊗</td><td>---</td><td>35</td><td>⊗</td></tr> <tr><td>---</td><td>14</td><td>⊗</td><td>---</td><td>36</td><td>⊗</td></tr> <tr><td>---</td><td>15</td><td>⊗</td><td>---</td><td>37</td><td>⊗</td></tr> <tr><td>---</td><td>16</td><td>⊗</td><td>---</td><td>38</td><td>⊗</td></tr> <tr><td>---</td><td>17</td><td>⊗</td><td>---</td><td>39</td><td>⊗</td></tr> <tr><td>---</td><td>18</td><td>⊗</td><td>---</td><td>40</td><td>⊗</td></tr> <tr><td>---</td><td>19</td><td>⊗</td><td>---</td><td>41</td><td>⊗</td></tr> <tr><td>---</td><td>20</td><td>⊗</td><td>---</td><td>42</td><td>⊗</td></tr> <tr><td>---</td><td>21</td><td>⊗</td><td>---</td><td>43</td><td>⊗</td></tr> <tr><td>---</td><td>22</td><td>⊗</td><td>---</td><td>44</td><td>⊗</td></tr> </tbody> </table>		LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL	---	1	<	---	25	⊙	---	2	□	---	26	⊙	---	3	□	---	26	⊙	---	4	⊗	---	26	⊙	---	5	⊗	---	27	⊙	---	6	⊗	---	28	⊙	---	7	⊗	---	29	⊗	---	8	⊗	---	30	⊗	---	9	⊗	---	31	⊗	---	10	⊗	---	32	⊗	---	11	⊗	---	33	⊗	---	12	⊗	---	34	⊗	---	13	⊗	---	35	⊗	---	14	⊗	---	36	⊗	---	15	⊗	---	37	⊗	---	16	⊗	---	38	⊗	---	17	⊗	---	39	⊗	---	18	⊗	---	40	⊗	---	19	⊗	---	41	⊗	---	20	⊗	---	42	⊗	---	21	⊗	---	43	⊗	---	22	⊗	---	44	⊗		
LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL																																																																																																																																								
---	1	<	---	25	⊙																																																																																																																																								
---	2	□	---	26	⊙																																																																																																																																								
---	3	□	---	26	⊙																																																																																																																																								
---	4	⊗	---	26	⊙																																																																																																																																								
---	5	⊗	---	27	⊙																																																																																																																																								
---	6	⊗	---	28	⊙																																																																																																																																								
---	7	⊗	---	29	⊗																																																																																																																																								
---	8	⊗	---	30	⊗																																																																																																																																								
---	9	⊗	---	31	⊗																																																																																																																																								
---	10	⊗	---	32	⊗																																																																																																																																								
---	11	⊗	---	33	⊗																																																																																																																																								
---	12	⊗	---	34	⊗																																																																																																																																								
---	13	⊗	---	35	⊗																																																																																																																																								
---	14	⊗	---	36	⊗																																																																																																																																								
---	15	⊗	---	37	⊗																																																																																																																																								
---	16	⊗	---	38	⊗																																																																																																																																								
---	17	⊗	---	39	⊗																																																																																																																																								
---	18	⊗	---	40	⊗																																																																																																																																								
---	19	⊗	---	41	⊗																																																																																																																																								
---	20	⊗	---	42	⊗																																																																																																																																								
---	21	⊗	---	43	⊗																																																																																																																																								
---	22	⊗	---	44	⊗																																																																																																																																								

## DEFINITIONS OF SPECIAL FEATURES

<u>Minor Code</u>	<u>Label</u>	<u>Name</u>	<u>Description</u>
307	BLO	Blowout	A small saucer, cup, or trough-shaped hollow or depression formed by wind erosion, on a pre-existing sand deposit. Typically 0.25 to 2.0 acres.
309	CLA	Clay spot	A spot where the surface texture is silty clay or clay in areas where the surface layer is sandy loam, loam, silt loam, or coarser. Typically 0.25 to 2.0 acres.
300	DEP	Spot of silty alluvial soil in depressions	A shallow, saucer-shaped area that is slightly lower on the landscape than the surrounding area and is without a natural outlet for surface drainage. Typically 0.25 to 2.0 acres.
204	ESB	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.
206	ESO	Escarpment, other	A relatively continuous and steep slope or cliff produced by erosion, but can be produced by faulting, breaking the general continuity of more gently sloping land surfaces. Exposed nonbedrock material is nonsoil or very shallow, poorly developed soil.
310	GRA	Gravelly spot	A spot where the surface layer has more than 35 percent, by volume, rock fragments that are mostly less than 3 inches in diameter in a area with less than 15 percent fragments. Typically 0.25 to 2.0 acres.
202	GUL	Gully	A small channel with steep sides cut by running water through which water ordinarily runs only after a rain, or after ice or snow melts. It generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.
111	MAR	Marsh or swamp	A water saturated, very poorly drained area, intermittently or permanently covered by water. Sedges, cattails, and rushes dominate swamps. Not used in map units where the named components are poorly or very poorly drained. Typically 0.25 to 2.0 acres.
311	ROC	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 0.25 to 2.0 acres.
312	SAL	Saline spot	An area where the surface layer has an electrical conductivity of 8 mmhos cm <sup>-1</sup> more than the surface layer of the named soils in the surrounding map unit, which has an EC of 2 mmhos cm <sup>-1</sup> or less. Typically 0.25 to 2.0 acres.
313	SAN	Sandy spot	Surface layer with sand content greater than 75 percent sand in areas where The surface layer of the named soils in the surrounding map unit have less than about 25 percent sand. Typically 0.25 to 2.0 acres.
314	ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface soil Has been lost from accelerated erosion. Typically 0.25 to 2.0 acres.
203	SLP	Short, steep slope	Narrow soil area that has slopes that are at least 2 slope classes steeper than the slope class of the surrounding map unit.

303	SNK	Sinkhole	A closed depression formed either by solution of the surficial rock, or by collapse of underlying caves. Complexes of sinkholes in carbonate-rock terrain are the main components of karst topography. Typically 0.25 to 2.0 acres.
330	WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.25 to 2.0 acres.

### **General Soil Map Units**

The General Soil Map will not be updated as part of this correlation.

**Soil Mapunit Symbol Conversion Legend Union County, Illinois  
October 2001**

Field symbols	Publication symbol	Field symbols	Publication symbol	Field symbols	Publication symbol
9G	99G	92	3092BL	214C3	214C2
71	3071A	92	8092B	214C3	214C3
71	3071L	99G	99G	214C3	214C3
71	8071A	162	3162L	214C3	214D2
75B	75B	162	8162A	214C3	214D3
75C	75B	164A	164A	214C3	5214B2
75C	75C	164A	164A	214C3	5214C3
75C	75C	164A	164B	214C3	5214D3
75C	75C3	164B	164B	214D2	214D2
75C	75D	164C2	164B	214D2	214D2
75C2	75C	164C3	164B	214D2	214D3
75C3	75C3	180	3180A	214D2	5214D3
75D	75D	180	3180L	214D3	214D2
75D2	75D	180	8180A	214D3	214D3
75D3	75D	214B	214B	214D3	214D3
79B	79B	214B	214B	214D3	5214D3
79C2	79C2	214B	214C2	214E	79E
79C3	79C3	214B	214C3	214E	79E2
79D2	79D2	214B	5214B2	214E	79E3
79D3	79D3	214C2	214C2	214E	79F
79E	79E	214C2	214C2	214E	5079E3
79E2	79E	214C2	214C3	214E3	79E
79E2	79E2	214C2	214D2	214E3	79E2
79E3	79E3	214C2	214D3	214E3	79E3
79F	79F	214C2	5214B2	214E3	79F
85	8085A	214C2	5214C3	214E3	5079E3
		214C2	5214D3		

**Soil Mapunit Symbol Conversion Legend Union County, Illinois \_ Continued**

Field symbols	Publi- cation symbol	Field symbols	Publi- cation symbol	Field symbols	Publi- cation symbol
284A	8284A	308D3	79D2	422	1426A
308B2	79B	308D3	79D3	422	3426A
308B2	79C2	308D3	477D2	422	8422A
308B2	79C3	308D3	477D3	422	8426A
308B2	477B	308E	79E	426	1426A
308B2	477C2	308E	79E2	426	3426A
308B2	477C3	308E	79E3	426	3426L
308C2	79C2	308E	79F	426	8426A
308C2	79C3	308E	5079E3	427	8427B
308C2	79D2	308E3	79E	456	3456B
308C2	79D3	308E3	79E2	456	8456B
308C2	477C2	308E3	79E3	475	8475B
308C2	477C3	308E3	79F	477B	477B
308C2	477D2	308E3	5079E3	477C2	477C2
308C2	477D3	331	3331A	477C3	477C3
308C3	79C2	331	3331L	477D2	477D2
308C3	79C3	331	8331A	477D3	477D3
308C3	79D2	333	3333A	589	8589B
308C3	79D3	333	3333L	590	3590L
308C3	477C2	333	8333A	590	8590A
308C3	477C3	334	1334A	682	8682B
308C3	477D2	334	3334A	692D	692D
308C3	477D3	334	3334L	692D2	692D
308D2	79D2	334	8334A	692D2	692D2
308D2	79D3	420	1288A	692D3	692D2
308D2	477D2	420	3288A	692E2	692F
308D2	477D3	420	8420A	692E3	692F
				692F	692F

## Soil Mapunit Symbol Conversion Legend Union County, Illinois \_ Continued

Field symbols	Publication symbol	Field symbols	Publication symbol	Field symbols	Publication symbol
694D	694D	834E2	5834F	930F	79E
694D2	694D	834E3	834F	930F	79E2
694D2	694D2	834E3	834G	930F	79E3
694D3	694D2	834E3	5834F	930F	79F
694E2	694F	834F	834F	930F	694D
694E3	694F	834F	834G	930F	694D2
694F	694F	834F	5834F	930F	694F
787	8787A	834G	834G	930F	832F
801A	801B	852E	692D	930F	832G
801B	801B	852E	692D2	930F	833F
801B	801B	852E	692F	930F	833G
802B	802D	854E2	834F	930F	8427B
802C	802D	854E3	834F	930F	8475B
802D	802D	854F	834F	930G	75B
802D	802D	864	864	930G	75C
802E	802D	864	864	930G	75C3
832E2	832F	864	865	930G	75D
832E3	832F	865	865	930G	79B
832F	832F	930F	75B	930G	79C2
832G	832G	930F	75C	930G	79C3
833E2	833F	930F	75C3	930G	79D2
833E3	833F	930F	75D	930G	79D3
833F	833F	930F	79B	930G	79E
833G	833G	930F	79C2	930G	79E2
834E2	834F	930F	79C3	930G	79E3
834E2	834G	930F	79D2	930G	79F
		930F	79D3	930G	99G

## Soil Mapunit Symbol Conversion Legend Union County, Illinois \_ Continued

Field symbols	Publication symbol	Field symbols	Publication symbol	Field symbols	Publication symbol
930G	694D	977F	8427B	3092	3092BL
930G	694D2	977G	977G	3092	8092B
930G	694F	1071A	1426A	3092A*	3092BL
930G	832F	1085A	1426A	3092B*	3092BL
930G	832G	1288A	1288A	3092BL	3092BL
930G	833F	1334	1334A	3092C*	3092BL
930G	833G	1334	3334A	3162A	3162L
930G	8427B	1334	3334L	3162B	3162L
930G	8475B	1334	8334A	3162L	3162L
940D	940D	1334A	1334A	3180A	3180A
940D2	940D	1420A	1334A	3180A	3180L
940D2	940D2	1422A	1426A	3180L	3180L
940D3	940D2	1426	1426A	3284A	8284A
940E	99G	1426	3426A	3284B	8284A
940E	834F	1426	3426L	3288A	3288A
940E	834G	1426	8426A	3331A	3331A
940E	940D	1426A	1426A	3331A	3331L
940E	940D2	1590A*	3590L	3331B	3331A
954E	694D	1590A*	8590A	3331B	3331L
954E	694D2	1590B*	3590L	3331L	3331L
954E	694F	1590B*	8590A	3333A	3333A
954E	8427B	3071	3071A	3333A	3333L
954E	8475B	3071	3071L	3333L	3333L
977E2	977F	3071	8071A	3334A	3334A
977E3	977F	3071A	3071A	3334A	3334L
977F	99G	3071A	3071L	3334L	3334L
977F	977F	3071L	3071L	3420A	3288A
977F	977F	3085A	3071L	3420A	3334L
977F	977G			3422A	3426A
977F	977G			3422A	3426L

## Soil Mapunit Symbol Conversion Legend Union County, Illinois \_ Continued

Field symbols	Publication symbol	Field symbols	Publication symbol	Field symbols	Publication symbol
3426A	3426A	5079B2	5079B2	8284A	8284A
3426A	3426L	5079B2	5333A	8284B	8284A
3426L	3426L	5079C3	5079C3	8288A	3288A
3456	3456B	5079C3	5333A	8331A	8331A
3456	8456B	5079D3	5079D3	8331B	8331A
3456A*	3456B	5079D3	5333A	8333A	8333A
3456B	3456B	5079E3	5079E3	8334A	8334A
3475A	8475B	5079E3	5333A	8420A	8420A
3475B	8475B	5214B2	5214B2	8422A	8422A
3589A	3590L	5214B2	5333A	8426A	8426A
3589B	3590L	5214C3	5214C3	8427A	8427B
3589C	3590L	5214C3	5333A	8427B	8427B
3590	3590L	5214D3	5214D3	8456A	8456B
3590	8590A	5214D3	5333A	8456B	8456B
3590A*	3590L	5308D	5079B2	8475A	8475B
3590A*	8590A	5308D	5079C3	8475B	8475B
3590B*	3590L	5308D	5079D3	8589A	8589B
3590B*	8590A	5308D	5079E3	8589B	8589B
3590L	3590L	5308D	5333A	8589C	8589B
3682	3682BL	5333A	5333A	8590A	8590A
3682A*	3682BL	5834F	5834F	8682A	8682B
3682BL	3682BL	8071A	8071A	8682B	8682B
4426	1426A	8085A	8085A	8787A	8787A
4426	3426A	8092B	8092B	MW	MW
4426	3426L	8162A	8162A	W	MW
4426	8426A	8162B	8162A	W	W
		8180A	8180A		

\* The asterisk indicates that these mapping units are taxadjuncts to the series.

Some field symbols are correlated to more than one publication symbol. Field checks, geology and slope maps were used to make these correlation decisions. See "Notes to Accompany" for description of these separations.

**ALPHABETIC SOIL MAP LEGEND**  
**Union County, Illinois**

Map Symbol	Soil Name
8787A	Banlic silt loam, 0 to 2 percent slopes, occasionally flooded
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded
3334L	Birds silt loam, 0 to 2 percent slopes, frequently flooded, long duration
8334A	Birds silt loam, 0 to 2 percent slopes, occasionally flooded
1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded
8589B	Bowdre silty clay, 1 to 6 percent slopes, occasionally flooded
8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded
3590L	Cairo silty clay, 0 to 2 percent slopes, frequently flooded, long duration
8590A	Cairo silty clay, 0 to 2 percent slopes, occasionally flooded
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded
832G	Clarksville-Menfro complex, 35 to 70 percent slopes
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded
3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration
8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded
75D	Drury silt loam, 10 to 18 percent slopes
75B	Drury silt loam, 2 to 5 percent slopes
75C	Drury silt loam, 5 to 10 percent slopes
75C3	Drury silt loam, 5 to 10 percent slopes, severely eroded
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded
3180L	Dupo silt loam, 0 to 2 percent slopes, frequently flooded, long duration
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded
8475B	Elsah silt loam, 1 to 4 percent slopes, occasionally flooded
3162L	Gorham silty clay loam, 0 to 3 percent slopes, frequently flooded, long duration
8162A	Gorham silty clay loam, 0 to 3 percent slopes, occasionally flooded
833G	Goss-Menfro complex, 35 to 70 percent slopes
3331A	Haymond silt loam, 0 to 3 percent slopes, frequently flooded
3331L	Haymond silt loam, 0 to 3 percent slopes, frequently flooded, long duration
8331A	Haymond silt loam, 0 to 3 percent slopes, occasionally flooded
214D2	Hosmer silt loam, 10 to 18 percent slopes, eroded
214D3	Hosmer silt loam, 10 to 18 percent slopes, severely eroded
214B	Hosmer silt loam, 2 to 5 percent slopes
214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded
214C3	Hosmer silt loam, 5 to 10 percent slopes, severely eroded
5214D3	Hosmer silt loam, karst, 10 to 18 percent slopes, severely eroded
5214B2	Hosmer silt loam, karst, 2 to 5 percent slopes, eroded
5214C3	Hosmer silt loam, karst, 5 to 10 percent slopes, severely eroded
8085A	Jacob silty clay, 0 to 2 percent slopes, occasionally flooded
8426A	Karnak clay, 0 to 2 percent slopes, occasionally flooded
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded
3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration
1426A	Karnak silty clay, undrained, 0 to 2 percent slopes, frequently flooded
3682BL	Medway silty clay loam, 1 to 6 percent slopes, frequently flooded, long duration
8682B	Medway silty clay loam, 1 to 6 percent slopes, occasionally flooded
79D2	Menfro silt loam, 10 to 18 percent slopes, eroded
79D3	Menfro silt loam, 10 to 18 percent slopes, severely eroded
79E	Menfro silt loam, 18 to 25 percent slopes
79E2	Menfro silt loam, 18 to 25 percent slopes, eroded
79E3	Menfro silt loam, 18 to 25 percent slopes, severely eroded
79B	Menfro silt loam, 2 to 5 percent slopes
79F	Menfro silt loam, 25 to 35 percent slopes
79C2	Menfro silt loam, 5 to 10 percent slopes, eroded
79C3	Menfro silt loam, 5 to 10 percent slopes, severely eroded
5079D3	Menfro silt loam, karst, 10 to 18 percent slopes, severely eroded
5079E3	Menfro silt loam, karst, 18 to 25 percent slopes, severely eroded
5079B2	Menfro silt loam, karst, 2 to 5 percent slopes, eroded
5079C3	Menfro silt loam, karst, 5 to 10 percent slopes, severely eroded
694D	Menfro-Baxter complex, 10 to 18 percent slopes
694D2	Menfro-Baxter complex, 10 to 18 percent slopes, eroded
694F	Menfro-Baxter complex, 18 to 35 percent slopes
832F	Menfro-Clarksville complex, 18 to 35 percent slopes
833F	Menfro-Goss complex, 18 to 35 percent slopes
692D	Menfro-Wellston silt loams, 10 to 18 percent slopes
692D2	Menfro-Wellston silt loams, 10 to 18 percent slopes, eroded
692F	Menfro-Wellston silt loams, 18 to 35 percent slopes
MW	Miscellaneous Water
802D	Orthents, loamy, hilly

# ALPHABETIC SOIL MAP LEGEND of Union County, Illinois - continued

Map Symbol	Soil Name
801B	Orthents, silty, undulating
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded
1288A	Petrolia silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
8420A	Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded
865	Pits, gravel
864	Pits, quarries
99G	Sandstone and Limestone Rock Land, 35 to 90 percent slopes
3092BL	Sarpy loamy fine sand, 1 to 8 percent slopes, frequently flooded, long duration
8092B	Sarpy loamy fine sand, 1 to 8 percent slopes, occasionally flooded
164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
3333L	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded, long duration
8333A	Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded
5333A	Wakeland silt loam, karst, 0 to 2 percent slopes
3456B	Ware fine sandy loam, 1 to 6 percent slopes, frequently flooded
8456B	Ware loam, 1 to 6 percent slopes, occasionally flooded
W	Water
977F	Wellston-Neotoma complex, 18 to 35 percent slopes
977G	Wellston-Neotoma complex, 35 to 70 percent slopes
834F	Wellston-Westmore silt loams, 18 to 35 percent slopes
834G	Wellston-Westmore silt loams, 35 to 70 percent slopes
5834F	Wellston-Westmore silt loams, karst, 18 to 35 percent slopes
477D2	Winfield silt loam, 10 to 18 percent slopes, eroded
477D3	Winfield silt loam, 10 to 18 percent slopes, severely eroded
477B	Winfield silt loam, 2 to 5 percent slopes
477C2	Winfield silt loam, 5 to 10 percent slopes, eroded
477C3	Winfield silt loam, 5 to 10 percent slopes, severely eroded
940D	Zanesville-Westmore silt loams, 10 to 18 percent slopes
940D2	Zanesville-Westmore silt loams, 10 to 18 percent slopes, eroded

**Numerical SOIL MAP LEGEND**  
**Union County, Illinois**

Map Symbol	Soil Name
75B	Drury silt loam, 2 to 5 percent slopes
75C	Drury silt loam, 5 to 10 percent slopes
75C3	Drury silt loam, 5 to 10 percent slopes, severely eroded
75D	Drury silt loam, 10 to 18 percent slopes
79B	Menfro silt loam, 2 to 5 percent slopes
79C2	Menfro silt loam, 5 to 10 percent slopes, eroded
79C3	Menfro silt loam, 5 to 10 percent slopes, severely eroded
79D2	Menfro silt loam, 10 to 18 percent slopes, eroded
79D3	Menfro silt loam, 10 to 18 percent slopes, severely eroded
79E	Menfro silt loam, 18 to 25 percent slopes
79E2	Menfro silt loam, 18 to 25 percent slopes, eroded
79E3	Menfro silt loam, 18 to 25 percent slopes, severely eroded
79F	Menfro silt loam, 25 to 35 percent slopes
99G	Sandstone and Limestone Rock Land, 35 to 90 percent slopes
164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes
214B	Hosmer silt loam, 2 to 5 percent slopes
214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded
214C3	Hosmer silt loam, 5 to 10 percent slopes, severely eroded
214D2	Hosmer silt loam, 10 to 18 percent slopes, eroded
214D3	Hosmer silt loam, 10 to 18 percent slopes, severely eroded
477B	Winfield silt loam, 2 to 5 percent slopes
477C2	Winfield silt loam, 5 to 10 percent slopes, eroded
477C3	Winfield silt loam, 5 to 10 percent slopes, severely eroded
477D2	Winfield silt loam, 10 to 18 percent slopes, eroded
477D3	Winfield silt loam, 10 to 18 percent slopes, severely eroded
692D	Menfro-Wellston silt loams, 10 to 18 percent slopes
692D2	Menfro-Wellston silt loams, 10 to 18 percent slopes, eroded
692F	Menfro-Wellston silt loams, 18 to 35 percent slopes
694D	Menfro-Baxter complex, 10 to 18 percent slopes
694D2	Menfro-Baxter complex, 10 to 18 percent slopes, eroded
694F	Menfro-Baxter complex, 18 to 35 percent slopes
801B	Orthents, silty, undulating
802D	Orthents, loamy, hilly
832F	Menfro-Clarksville complex, 18 to 35 percent slopes
832G	Clarksville-Menfro complex, 35 to 70 percent slopes
833F	Menfro-Goss complex, 18 to 35 percent slopes
833G	Goss-Menfro complex, 35 to 70 percent slopes
834F	Wellston-Westmore silt loams, 18 to 35 percent slopes
834G	Wellston-Westmore silt loams, 35 to 70 percent slopes
864	Pits, quarries
865	Pits, gravel
940D	Zanesville-Westmore silt loams, 10 to 18 percent slopes
940D2	Zanesville-Westmore silt loams, 10 to 18 percent slopes, eroded
977F	Wellston-Neotoma complex, 18 to 35 percent slopes
977G	Wellston-Neotoma complex, 35 to 70 percent slopes
1288A	Petrolia silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded
1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded
1426A	Karnak silty clay, undrained, 0 to 2 percent slopes, frequently flooded
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded
3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration
3092BL	Sarpy loamy fine sand, 1 to 8 percent slopes, frequently flooded, long duration
3162L	Gorham silty clay loam, 0 to 3 percent slopes, frequently flooded, long duration
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded
3180L	Dupo silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded
3331A	Haymond silt loam, 0 to 3 percent slopes, frequently flooded
3331L	Haymond silt loam, 0 to 3 percent slopes, frequently flooded, long duration
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
3333L	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded
3334L	Birds silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded

## Numerical SOIL MAP LEGEND of Union County, Illinois - continued

Map Symbol	Soil Name
3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration
3456B	Ware fine sandy loam, 1 to 6 percent slopes, frequently flooded
3590L	Cairo silty clay, 0 to 2 percent slopes, frequently flooded, long duration
3682BL	Medway silty clay loam, 1 to 6 percent slopes, frequently flooded, long duration
5079B2	Menfro silt loam, karst, 2 to 5 percent slopes, eroded
5079C3	Menfro silt loam, karst, 5 to 10 percent slopes, severely eroded
5079D3	Menfro silt loam, karst, 10 to 18 percent slopes, severely eroded
5079E3	Menfro silt loam, karst, 18 to 25 percent slopes, severely eroded
5214B2	Hosmer silt loam, karst, 2 to 5 percent slopes, eroded
5214C3	Hosmer silt loam, karst, 5 to 10 percent slopes, severely eroded
5214D3	Hosmer silt loam, karst, 10 to 18 percent slopes, severely eroded
5333A	Wakeland silt loam, karst, 0 to 2 percent slopes
5834F	Wellston-Westmore silt loams, karst, 18 to 35 percent slopes
8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded
8085A	Jacob silty clay, 0 to 2 percent slopes, occasionally flooded
8092B	Sarpy loamy fine sand, 1 to 8 percent slopes, occasionally flooded
8162A	Gorham silty clay loam, 0 to 3 percent slopes, occasionally flooded
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
8331A	Haymond silt loam, 0 to 3 percent slopes, occasionally flooded
8333A	Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded
8334A	Birds silt loam, 0 to 2 percent slopes, occasionally flooded
8420A	Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded
8426A	Karnak clay, 0 to 2 percent slopes, occasionally flooded
8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded
8456B	Ware loam, 1 to 6 percent slopes, occasionally flooded
8475B	Elsah silt loam, 1 to 4 percent slopes, occasionally flooded
8589B	Bowdre silty clay, 1 to 6 percent slopes, occasionally flooded
8590A	Cairo silty clay, 0 to 2 percent slopes, occasionally flooded
8682B	Medway silty clay loam, 1 to 6 percent slopes, occasionally flooded
8787A	Banlic silt loam, 0 to 2 percent slopes, occasionally flooded
MW	Miscellaneous Water
W	Water

## CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS

### SCS ANALYZED AT UNIVERSITY OF ILLINOIS SOILS LAB

<u>Sampled As</u>	<u>Sample No.</u>	<u>Approved</u>
Gorham	S73IL-91-40 (1-8)	Gorham
Gorham	S74IL-91-56 (1-12)	Gorham
(Unnamed)	S72IL-91-9 (1-7)	Cairo (taxadjunct)
Cape	S72IL-91-12 (1-6)	Jacob
(Unnamed)	S72IL-91-15 (1-8)	Dupo (inclusion)
Ware	S74IL-91-54 (1-11)	Ware
Newart	S74IL-91-55 (1-13)	Medway

### UNIVERSITY OF ILLINOIS SOILS LAB

Bartle	74ILL91-43 (23040-46)	Banlic
Bartle	74ILL91-43 (23047-52)	Banlic

### SOIL SURVEY INVESTIGATION UNIT LINCOLN, NEBRASKA

Hosmer	S73IL-91-35 (73LI020-22)	Hosmer
Hosmer	S73IL-91-36 (73LI023-25)	Hosmer
Muren	S73IL-91-37 (73L1-26-28)	Hosmer

### ENGINEERING TEST DATA ILLINOIS DEPARTMENT OF TRANSPORTATION

Jacob	75IL091-1-1	Jacob
Wakeland	75IL091-2-1	Wakeland
Birds	75IL091-3-1	Birds
Haymond	75IL091-4-1	Haymond
Hosmer	75IL091-5-(1-2)	Hosmer
Bowdre	75IL091-6-(1-2)	Bowdre
Ware	75IL091-7-(1-3)	Ware
(Riley-Newart)	75IL091-8-(1-3)	Medway
Gorham	75IL091-9-(1-3)	Gorham
Tice	75IL091-10-(1-2)	Tice

**Notes To Accompany the Classification And Correlation  
of Union County, Illinois  
Prepared by Dwayne R. Williams**

DMUiid	Mapunit symbol	Mapunit Name	Mapunit text notes
153,099	75B	Drury silt loam, 2 to 5 percent slopes	050101 DRW -- The 6 digit dmu id numbers are the NASIS 5 conversion. Converted 133075B (32764)(143079) to ilss075B (43488)(153099). These areas were correlated in the 1978 published soil survey report of Union County. Slopes are adjusted to fit the Southern 7 Legend.
143,775	75C	Drury silt loam, 5 to 10 percent slopes	010401-DRW compiled in areas that have not been cleared. Changed 133075C (29233)(140221) to ilss075C (46643)(143775).
153,145	75C3	Drury silt loam, 5 to 10 percent slopes, severely eroded	010401-DRW compiled in a areas that have been cleared. Changed 133075C (29233)(140221) to ilss075C3 (43541)(153145).
143,776	75D	Drury silt loam, 10 to 18 percent slopes	010501-DRW correlated the compiled mu 75D2 & 75D3 to 75D. Changed 604075D (19650)(130898) to ilss075D (46644)(143776).
153,100	79B	Menfro silt loam, 2 to 5 percent slopes	Changed 133079B (29236)(140224) to ilss079B (43490)(153100). These areas were correlated as Alford in the 1978 published soil survey report of Union County. Slopes are adjusted to fit the Southern 7 Legend.
153,533	79C2	Menfro silt loam, 5 to 10 percent slopes, eroded	Changed 133079C2 (29237)(140225) to ilss079C2 (44004)(153533).
153,102	79C3	Menfro silt loam, 5 to 10 percent slopes, severely eroded	Changed 163079C3 (31094)(142081) to ilss079C3 (43493)(153102).
153,534	79D2	Menfro silt loam, 10 to 18 percent slopes, eroded	Changed 001079D2 (30774)(141761) to ilss079D2 (44005)(153534).
153,107	79D3	Menfro silt loam, 10 to 18 percent slopes, severely eroded	Changed 133079D3 (29238)(140226) to ilss079D3 (43498)(153107).
156,116	79E	Menfro silt loam, 18 to 25 percent slopes	Changed 163079F (31097)(142084)to ilss079E2 (44006)(153535). Created mu 079E for forested areas. Mu 214E was correlated to 079E. 010401 DRW - changed ilss079B (43490)(153100) to mu 079E ilss079E (47271)(156116).
153,535	79E2	Menfro silt loam, 18 to 25 percent slopes, eroded	Changed 163079F (31097)(142084) to ilss079E2 (44006)(153535). 79E2 - compiled on mixed wooded pasturelands.
153,108	79E3	Menfro silt loam, 18 to 25 percent slopes, severely eroded	Changed 133079F3 (29240)(140228) to ilss079E3 (43499)(153108). 010501 DRW - mu 214E3 correlated to mu 079E3.
153,114	79F	Menfro silt loam, 25 to 35 percent slopes	Changed 133079F (29239)(140227) to ilss079F (43506)(153114).
153,057	99G	Sandstone and Limestone Rock Land, 35 to 90 percent slopes	Changed 087009G2(22776)(133987) to ilss009G (43445)(153057). 010401-DRW. Mapping unit 009G correlated to ilss099G (43445)(153057).

Union County Notes -- Continued

DMUiid	Mapunit symbol	Mapunit Name	Mapunit text notes
153,122	164A	Stoy silt loam, 0 to 2 percent slopes	Changed 605164A (28057)(139268) to ilss164A (43514)(153122). These areas were correlated in the 1978 published soil survey report of Union County. Slopes are adjusted to fit the Southern 7 Legend.
153,125	164B	Stoy silt loam, 2 to 5 percent slopes	Changed 605164B (28058)(139269) to ilss164B (43517)(153125). 010401-DRW correlated the compiled mu 164C2 & 164C3 to 164B.
153,507	214B	Hosmer silt loam, 2 to 5 percent slopes	Changed 605214B (28065)(139276) to ilss214B (43962)(153507). These areas were correlated in the 1978 published soil survey report of Union County. Slopes are adjusted to fit the Southern 7 Legend.
153,508	214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded	Changed 605214C2 (28066)(139277) to ilss214C2 (43969)(153508).
153,510	214C3	Hosmer silt loam, 5 to 10 percent slopes, severely eroded	Changed 604214C3 (20565)(131776) to ilss214C3 (43973)(153510).
153,511	214D2	Hosmer silt loam, 10 to 18 percent slopes, eroded	Changed 604214D2 (20033)(131281) to ilss214D2 (43974)(153511).
153,512	214D3	Hosmer silt loam, 10 to 18 percent slopes, severely eroded	Changed 181214D3 (26442)(137653) to ilss214D3 (43977)(153512).
153,132	477B	Winfield silt loam, 2 to 5 percent slopes	Changed 133477B (29265)(140253) to ilss477B (43524)(153132). Slopes are adjusted to fit the Southern 7 Legend.
153,682	477C2	Winfield silt loam, 5 to 10 percent slopes, eroded	Changed 133477C2 (29266)(140254) to ilss477C2 (44182)(153682).
153,684	477C3	Winfield silt loam, 5 to 10 percent slopes, severely eroded	Changed 163477C3 (31151)(142138) to ilss477C3 (44186)(153684).
153,694	477D2	Winfield silt loam, 10 to 18 percent slopes, eroded	Changed 163477C3 (31151)(142138) to ilss477D2 (44199)(153694).
152,128	477D3	Winfield silt loam, 10 to 18 percent slopes, severely eroded	111898 DRW - changed 163477C3 (31151)(142138) to ilss477D3 (42234)(152128).
153,963	692D	Menfro-Wellston silt loams, 10 to 18 percent slopes	Changed 181852E (26475)(137686) to ilss692D2 (44497)(153962). 01/05/01 DRW- correlated compiled mu 692D2 (44497)(153962) to 692D (44498)(153963). Menfro soils were correlated as Alford in the 1978 published soil survey report. Slopes are adjusted to fit the Southern 7 Legend.
153,962	692D2	Menfro-Wellston silt loams, 10 to 18 percent slopes, eroded	Changed 181852E (26475)(137686) to ilss692D2 (44497)(153962). 010501-DRW - correlated compiled mu 692D3 to 692D2.
153,966	692F	Menfro-Wellston silt loams, 18 to 35 percent slopes	Changed 181852E (26475)(137686) to ilss692F (44501)(153966). 010401 DRW - correlated compiled mu 692E2 and 692E3 to 692F.

Union County Notes -- Continued

DMUiid	Mapunit symbol	Mapunit Name	Mapunit text notes
153,989	694D	Menfro-Baxter complex, 10 to 18 percent slopes	Changed 181954E (26480)(137691) to ilss694D (44527)(153989). 010801 DRW - correlated compiled mu 692D2 (44526)(153988) to 692D (44527)(153989). The Menfro soils were correlated as Alford in the 1978 published soil survey report. Slopes are adjusted to fit the Southern 7 Legend.
153,988	694D2	Menfro-Baxter complex, 10 to 18 percent slopes, eroded	Changed 181954E (26480)(137691) to ilss694D2 (44526)(153988). 010801 DRW - Correlated compiled mu 694D3 to 694D2 (44526).
153,992	694F	Menfro-Baxter complex, 18 to 35 percent slopes	Changed 605954F2 (28152)(139363) to ilss694F (44530)(153992). 010801 DRW - correlated compiled mu 694E2 and 694E3 to mu694F.
153,894	801B	Orthents, silty, undulating	Changed 181801B (26473)(137684) to ilss801B (44411)(153894).
153,896	802D	Orthents, loamy, hilly	Changed 181802D (26474)(137685) to ilss802D (44413)(153896).
154,031	832F	Menfro-Clarksville complex, 18 to 35 percent slopes	Changed 604990F (19748)(130996) to ilss832F (44577)(154031). 0100901 DRW - compiled mu 832E2 & 832E3 were correlated to 832F. The Menfro soils were correlated as Alford in the 1978 published soil survey report of Union County. The Clarksville soils were correlated as Goss (mu 930) in the 1978 published soil survey report of Union County. Using geology maps and field checks we have recorrelated some of the areas to Menfro-Clarksville (832). Slopes are adjusted to fit the Southern 7 Legend.
154,032	832G	Clarksville-Menfro complex, 35 to 70 percent slopes	Changed 604990G (19479)(130997) to ilss832G (44578)(154032).
153,972	833F	Menfro-Goss complex, 18 to 35 percent slopes	Changed 181930F (26477)(137688) to ilss833F (44507)(153972). 010901 DRW - correlated compiled mu 833E2 & 833E3 to 833F. The Menfro soils were correlated as Alford in the 1978 published soil survey report of Union County. Slopes are adjusted to fit the Southern 7 Legend.
153,973	833G	Goss-Menfro complex, 35 to 70 percent slopes	Changed 181930G (26478)(137689) to ilss833G (44508)(153973).
155,170	834F	Wellston-Westmore silt loams, 18 to 35 percent slopes	Changed 157853F (25639)(136850) to ilss834F (45868)(155170). 010901 DRW - correlated compiled mu 834E2 & 834E3 to 834F. Correlate any compiled mu of 854E2, 854E3 and 854F to 834F. Correlated the original mu name Westmore-Menfro to Westmore-Wellston. Slopes are adjusted to fit the Southern 7 Legend.
143,085	834G	Wellston-Westmore silt loams, 35 to 70 percent slopes	Changed 157853F (25639)(136850) to ilss834G (46640)(143085). 010901 DRW - correlated the original mu name Westmore-Menfro to Wellston-Westmore.
142,188	864	Pits, quarries	Changed 181864 (26476)(137687) to ilss864 (44502)(153967). 081301 DRW - a correlation decision was made to use the dmU taken from Randolph County from mu 864 in the Southern 7 counties and possibly the state. Correlate ilss864 (153967) to 163864 (142188).

Union County Notes -- Continued

DMUiid	Mapunit symbol	Mapunit Name	Mapunit text notes
142,190	865	Pits, gravel	12/08/00. D. Williams. Mapping unit added to the So. 7 legend and to the Union County Legend after reviewed correlation document with John Doll and Gary Struben. It will account for areas compiled with spot symbols as Gravel Pits (G.P.) in the published soil surveys.
151,515	940D	Zanesville-Westmore silt loams, 10 to 18 percent slopes	Changed 181940E (26479)(137690) to ilss940D3 (41413)(151515). 011001 DRW - correlated compiled mu 940D2 to 940D. Changed ilss940D3 to ilss940D - changed interpts. These areas were correlated in the 1978 published soil survey report of Union County. Slopes are adjusted to fit the Southern 7 Legend.
153,975	940D2	Zanesville-Westmore silt loams, 10 to 18 percent slopes, eroded	Changed 181940E (26479)(137690) to ilss940D2 (44510)(153975). 011001 DRW - correlated compiled mu 940D3 to 940D2. Created dmu dummy940D3.
154,019	977F	Wellston-Neotoma complex, 18 to 35 percent slopes	Changed 181477F (26481)(137692) to ilss977F (44560)(154019). 011201 DRW - correlated compiled mu 977E2 & 977E3 to mu977F. These areas were correlated in the 1978 published soil survey report of Union County. Slopes are adjusted to fit the Southern 7 Legend
143,087	977G	Wellston-Neotoma complex, 35 to 70 percent slopes	Changed 181477F (26481)(137692) to ilss977G (46641)(143087).
154,084	1288A	Petrolia silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded	Changed 1631288A (31108)(142095) to ilss1288A (44638)(154084). These areas were correlated as Piopolis in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,096	1334A	Birds silt loam, undrained, 0 to 2 percent slopes, frequently flooded	Changed 1811334 (26433)(137644) to ilss1334A (44650)(154096). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,097	1426A	Karnak silty clay, undrained, 0 to 2 percent slopes, frequently flooded	Changed 1811426 (26434)(137645) to ilss1426A (44651)(154097). These areas were correlated in the 1978 published soil survey report of Union County. Marsh areas of Karnak mapped 4426 are correlated to mapping mu 1426. Flooding frequency and slope were added to the map unit name.
154,039	3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded	Changed 1813071 (26446)(137657) to ilss3071A (44586)(154039). 011201 DRW - correlated compiled mu 3071A to 3071L outside the levy on the Mississippi River. 3071A - the mu compiled along the Cache River are left as 3071A. 050701 DRW - the soils in unit 3071 in Union County are taxadjuncts to the Darwin Series. They are outside the concept of Darwin series because they are finely stratified in the upper part of the profile. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.

Union County Notes -- Continued

DMUiid	Mapunit symbol	Mapunit Name	Mapunit text notes
156,165	3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration	Changed 1813071 (26446)(137657) to ilss3071A (44586)(154039). Created ilss3071L (47341)(156165) from ilss3071A (44586)(154039). 011201 DRW - correlated compiled mu 3071A and 3071A* to 3071L outside the levy on the Mississippi River. MU 3071A compiled along the Cache River are left as 3071A. 050701 DRW - the soils in unit 3071 in Union County are taxadjuncts to the Darwin Series. They are outside the concept of Darwin series because they are finely stratified in the upper part of the profile. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
156,166	3092BL	Sarpy loamy fine sand, 1 to 8 percent slopes, frequently flooded, long duration	Changed 1333092B (29250)(140238) to ilss3092B (44601)(154050). Created ilss3092BL (47342)(156166) from ilss3092B (44601)(154050). 011201 DRW - correlated compiled mu 3092A*, 3092B* and 3092C* to 3092B or 3092BL. These soils are taxadjuncts to the Sarpy series in Union County because most pedons contain thin loamy subhorizons in the control section. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
156,167	3162L	Gorham silty clay loam, 0 to 3 percent slopes, frequently flooded, long duration	Changed ilss8162B (44615)(154063) to ilss3162A (43757)(153331). Created ilss3162L (47343)(156167) from ilss3162A (43757)(153331). 011201 DRW - correlated compiled mu 3162A & 3162B to mu 3162L. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,068	3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded	Changed 1633180A (31123)(142110) to ilss3180A (44620)(154068). 011201 DRW - correlated compiled mu 3180A on the Mississippi River outside the levy to 3180L. Soils compiled 3180A on Cache River will remain 3180A. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
156,168	3180L	Dupo silt loam, 0 to 2 percent slopes, frequently flooded, long duration	Changed 1633180A (31123)(142110) to ilss3180A (44620)(154068). Created ilss3180L (47344)(156168) from ilss3180A (44620)(154068). 011201 DRW - correlated compiled mu 3180A on the Mississippi River outside the levy to 3180L.
152,959	3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded	Changed 1633288L (31124)(142111) to ilss3288A (43338)(152959). 012301 DRW - correlated compiled mu 8288A and to 3288A. 012901 DRW - correlated compiled mu3240A to mu 3288A in the Cache River Valley. These areas were correlated as Piopolis in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,088	3331A	Haymond silt loam, 0 to 3 percent slopes, frequently flooded	Changed 0013331A (30809)(141796) to ilss3331A (44642)(154088). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
156,255	3331L	Haymond silt loam, 0 to 3 percent slopes, frequently flooded, long duration	Changed 0013331A (30809)(141796) to ilss3331A (44642)(154088). Converted ilss3331A (44642)(154088) to ilss3331L (47435)(156255).

Union County Notes -- Continued

DMUiid	Mapunit symbol	Mapunit Name	Mapunit text notes
154,092	3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded	Changed 1333333A (29253)(140241) to ilss3333A (44646)(154092). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,093	3333L	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded, long duration	Changed 1333333L (29254)(140242) to ilss3333L (44647)(154093).
154,098	3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded	Changed 181334 (26457)(137668) to ilss3334A (44652)(154098). 012901 DRW - correlate any compiled 3420A and 3334A located inside the levy on the Mississippi River to 3334A. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,099	3334L	Birds silt loam, 0 to 2 percent slopes, frequently flooded, long duration	Changed 181334 (26457)(137668) to ilss3334A (44652)(154098). Created ilss3334L (44655)(154099) from ilss3334A (44652)(137668). 012901 DRW - correlate any compiled 3334A and 3420A located outside the levy on the Mississippi River to 3334L.
152,140	3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded	Changed 605426 (28100)(139311) to ilss3426A (42247)(152140). 01/22/01 DRW - correlated any areas of 3422A compiled on the inside of the levy to 3426A. Correlated any areas of mu 3422A compiled on the river side of the levy to 3426L. These areas were correlated in the 1978 published soil survey report of Union County. Marsh areas of Karnak mapped 4426 are correlated to mapping mu 1426. Flooding frequency and slope were added to the map unit name.
156,257	3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration	Changed ilss3426A (42247)(152140) to ilss3426L (47438)(156257). 01/22/01 DRW - correlated any areas of 3422A compiled on the inside of the levy to 3426A. Correlated any areas of mu3422A compiled on the river side of the levy to 3426L.
154,162	3456B	Ware fine sandy loam, 1 to 6 percent slopes, frequently flooded	Changed 604456B (19726)(130974) to ilss3456B (44728)(154162). 01/22/01 DRW Correlated any compiled mu3456A* & 3456B* to mu 3456B*. 051001 DRW - the soils in unit 3456 in Union County are outside the concept of the Ware series because they are finely stratified in the upper part of the profile. Soils in this unit are taxadjuncts to the Ware Series. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,268	3590L	Cairo silty clay, 0 to 2 percent slopes, frequently flooded, long duration	Changed 1813590 (26459) to ilss3590A* (45824). Created ilss3590L (45824)(155144) from 1813590 (26459)(137670). 01/22/01 DRW - correlated compiled mu 1590A*, 1590B*, 3590A*, 3590B*, 3589A, 3589B and 3589C to 3590L. 050701 DRW - these soils are taxadjuncts to the Cairo Series in Union County because they lack the required abrupt textural change between the clayey and sandy layers defined in the series. In addition, the soils in unit 3590 are finely stratified in the upper part of the profile, which is not allowed in the series concept. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.

Union County Notes -- Continued

DMUiid	Mapunit symbol	Mapunit Name	Mapunit text notes
156,259	3682BL	Medway silty clay loam, 1 to 6 percent slopes, frequently flooded, long duration	Changed 1813456 (26458)(137669) to ilss3456BL (47440)(156258). The soils in mapping unit 3682 are taxadjuncts of Medway because they are outside the concept of the Medway series. They are finely stratified in the upper part of the profile. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,312	5079B2	Menfro silt loam, karst, 2 to 5 percent slopes, eroded	Changed 1335079B (29270)(140258) to ilss5079B2 (44886)(154312). These areas were correlated as Alford in the 1978 published soil survey report of Union County. Slopes are adjusted to fit the Southern 7 Legend.
154,314	5079C3	Menfro silt loam, karst, 5 to 10 percent slopes, severely eroded	Changed 1335079C (29271)(140259) to ilss5079C3 (44888)(154314).
154,316	5079D3	Menfro silt loam, karst, 10 to 18 percent slopes, severely eroded	Changed 1635079D (31156)(142143) to ilss5079D3 (44890)(154316).
154,318	5079E3	Menfro silt loam, karst, 18 to 25 percent slopes, severely eroded	Changed 1635079D (31156)(142143) to ilss5079E3 (44892)(154318). 013101 DRW - some karst areas originally mapped as Hosmer 214E and 214E3 or Alford 308E and 308E3 were correlated to Menfro 5079B2.
155,312	5214B2	Hosmer silt loam, karst, 2 to 5 percent slopes, eroded	Changed 605214B (28065)(139276) to ilss214B (43962)(153507) to ilss5214B2 (46211)(155312). 013101 - DRW some of the original Hosmer 214B were compiled as 5214B2 and 5214C2 or 5214C3 in karst areas. These areas were correlated in the 1978 published soil survey report of Union County. Slopes are adjusted to fit the Southern 7 Legend.
155,313	5214C3	Hosmer silt loam, karst, 5 to 10 percent slopes, severely eroded	Changed 604214C3 (20565)(139276) to ilss214C3 (43973)(153510) to ilss5214C3 (46212)(155313). 013101 - DRW some of the original Hosmer 214C2 and 214C3 was compiled as 5214C3 in karst areas.
155,314	5214D3	Hosmer silt loam, karst, 10 to 18 percent slopes, severely eroded	Changed 181214D3 (26442)(137653) to ilss214D3 (43977)(153512) to ilss5214D3 (46213)(155314). 013101 - DRW some of the original Hosmer 214C2, 214C3, 214D2 and 214D3 were compiled as 5214C3 in karst areas.
156,261	5333A	Wakeland silt loam, karst, 0 to 2 percent slopes	Changed ilss3333A (44646)(154092) to ilss5333A (47444)(156261). 012201 DRW - correlate any sinks in karst units to 5333A. Areas were compiled as 5079B2, 5079C3, 5079D3, 5079E3, 5214B2, 5214C3 and 5214D3. These areas were correlated in the 1978 published soil survey report of Union County. The karst designation and slope were added to the map unit name.
155,323	5834F	Wellston-Westmore silt loams, karst, 18 to 35 percent slopes	Changed ilss834E3 (45867)(155169) to ilss5834E (46223)(155323). 013101 DRW - correlated any compiled 834E2, 834E3 and 834F in karst areas to 5834F. Slopes are adjusted to fit the Southern 7 Legend.
154,040	8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded	Changed 878071 (22836)(134047) to ilss8071A (44587)(154040). These areas were correlated in the 1978 published soil survey report of Union County. Mu 3071 is a taxadjunct of Darwin because they are finely stratified in the upper part of the profile. Flooding frequency and slope were added to the map unit name.

## Union County Notes -- Continued

DMUiid	Mapunit symbol	Mapunit Name	Mapunit text notes
154,049	8085A	Jacob silty clay, 0 to 2 percent slopes, occasionally flooded	Changed 077085 (22486)(133697) to ilss8085A (44598)(154049). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,053	8092B	Sarpy loamy fine sand, 1 to 8 percent slopes, occasionally flooded	Changed 0578092B (29080)(140193) to ilss8092B (44604)(154053). 012301 DRW - correlated compiled mu 8092A* and 8092C* to 8092B*. These soils are taxadjuncts to the Sarpy series in Union County because most pedons contain thin loamy subhorizons in the control section. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
152,965	8162A	Gorham silty clay loam, 0 to 3 percent slopes, occasionally flooded	Changed 1638162A (31181)(142168) to ilss8162A (43344)(152965). 012301 DRW - correlated compiled mu 8162B to 8162A. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,070	8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded	Changed 1638162A (31181)(142168) to ilss8162A (43344)(152965). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,077	8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded	Changed 1338284A (29301)(140289) to ilss8284A (44630)(154077). 011201 DRW - correlated mu 3284A, 3284B and 8284B to 8284A. These areas were correlated in the 1978 published soil survey report of Union County. The Tice series was revised to allow for a texture of clay loam clay loam in the lower part of the B and C horizons. Flooding frequency and slope were added to the map unit name.
154,091	8331A	Haymond silt loam, 0 to 3 percent slopes, occasionally flooded	Changed 605331 (28086)(139297) to ilss8331A (44645)(154091). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,094	8333A	Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded	Changed 1338333A (29304)(140292) to ilss8333A (44648)(154094). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
152,130	8334A	Birds silt loam, 0 to 2 percent slopes, occasionally flooded	Changed 1333334L (29255)(140243) to ilss8334A (42236)(152130). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,120	8420A	Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded	Changed 0878420 (22840)(134051) to ilss8420A (44677)(154120). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,126	8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded	Changed 0553422 (30629)(141617) to ilss8422A (44683)(154126). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,130	8426A	Karnak clay, 0 to 2 percent slopes, occasionally flooded	Changed 0878426 (22841)(134052) to ilss8426A (44690)(154130). These areas were correlated in the 1978 published soil survey report of Union County. Marsh areas of Karnak mapped 4426 are correlated to mapping mu 1426. Flooding frequency and slope were added to the map unit name.

## Union County Notes -- Continued

DMUiid	Mapunit symbol	Mapunit Name	Mapunit text notes
154,132	8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded	Changed 0878427B (22843)(134054) to ilss8427B (44695)(154132). 0012301 DRW - correlated compiled mu 8427A to 8427B. Some areas originally mapped as mu 977F and 954E have been compiled and correlated to 8427B. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,160	8456B	Ware loam, 1 to 6 percent slopes, occasionally flooded	Changed 604456B (19726)(130974) to ilss8456B (44726)(154160). 012301 DRW - correlated compiled mu 8456A to 8456B. These areas were correlated in the 1978 published soil survey report of Union County. SERIES ESTABLISHED: Alexander County, Illinois, 1967. Mapping unit 3456 is a taxadjunct of Ware because it is finely stratified in the upper part. Flooding frequency and slope were added to the map unit name.
155,158	8475B	Elsah silt loam, 1 to 4 percent slopes, occasionally flooded	Changed 181475 (26467)(137678) to ilss8475B (45852)(155158). 01/22/01 DRW - correlated compiled mu 3475A, 3475B, 8475A and drainage areas in the Illinois Ozarks of mu 930F,930G, and 954E to mu8475B. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,259	8589B	Bowdre silty clay, 1 to 6 percent slopes, occasionally flooded	Changed 604589B (19745)(130993) to ilss8589B (44828)(154259). 020801 DRW - correlated compiled mu 8589A and 8589C to 8589B. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,267	8590A	Cairo silty clay, 0 to 2 percent slopes, occasionally flooded	Changed 1813590 (26459)(137670) to ilss8590A (44836)(154267). 012401 DRW - correlated compiled mu 8590B* to 8590A*. These areas were correlated in the 1978 published soil survey report of Union County. These soils are taxadjuncts to the Cairo Series in Union County because they lack the required abrupt textural change between the clayey and sandy layers defined in the series. In addition, the soils in unit 3590 are finely stratified in the upper part of the profile, which is not allowed in the series concept. Flooding frequency and slope were added to the map unit name.
154,303	8682B	Medway silty clay loam, 1 to 6 percent slopes, occasionally flooded	Changed 1957682A (32419)(142807) to ilss8682B (44876)(154303). 020801 DRW - Changed ilss8682A to ilss8682B because of slope range. These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
154,307	8787A	Banlic silt loam, 0 to 2 percent slopes, occasionally flooded	Changed 1338787A (29313)(140301) to ilss8787A (44881)(154307). These areas were correlated in the 1978 published soil survey report of Union County. Flooding frequency and slope were added to the map unit name.
155,361	MW	Miscellaneous Water	D. Williams. 12/07/00. Mapping unit added to the So. 7 legend and to the Union County Legend after reviewed correlation document with John Doll and Gary Struben. It will account for areas compiled as Sewage Lagoons (S.L.) in the original soil surveys.
155,171	W	Water	2/26/99 DRW - changed 605W (28161)(139372) to ilss605W (43345)(152966). 8/24/01 DRW - correlated ilss605W (43345)(152966) to Water -- Statewide DMU (155171).

## Correlation Notes by Soil Series

Series Name	Series Note
Banlic	BANLIC CORRELATION: The typical pedon is from Union County, Illinois. University of Illinois Soils Lab data from samples 74ILL91-43 (23040-46) and 74ILL91-43 (2304047 -52) correlated pedons sampled as Bartle to Banlic
Baxter	BAXTER CORRELATION: The typical pedon is from Union County, Illinois.
Birds	BIRDS CORRELAION: The typical pedon is from Union County, Illinois. University of Illinois Department of Transportation Engineering Test data from sample 75IL091-3-1 correlated pedon sampled as Birds.
Bowdre	BOWDRE CORRELATION: The typical pedon is from Union County, Illinois. University of Illinois Department of Transportation Engineering Test data from sample 75IL091-6-(1-2) correlated pedon sampled as Bowdre.
Burnside	BURNSIDE CORRELATION: The typical pedon is from Johnson County, Illinois. It is the OSD type location for Burnside. BURNSIDE SERIES ESTABLISHED: Johnson County, Illinois, 1954.
Cairo	CAIRO CORRELATION: The typical pedon is from Alexander County, Illinois (OSD type location). 050701 DRW - these soils are taxadjuncts to the Cairo Series in Union County because they lack the required abrupt textural change between the clayey and sandy layers defined in the series. In addition, the soils in unit 3590 are finely stratified in the upper part of the profile, which is not allowed in the series concept. SCS analyzed at the University of Illinois Soils Lab data from samples 72IL-91-9 (1-7) sampled as Cairo and correlated to Cairo Taxadjunct because they lacked the required textural changes between the clayey and sandy layers.
Cape	CAPE CORRELATION: The typical pedon is from Saline County, Illinois (OSD location). CAPE SERIES ESTABLISHED: Alexander County, Illinois, 1967. The OSD was moved from Alexander County, Illinois to more central location for the series.
Clarksville	CLARKSVILLE CORRELATION: The typical pedon is from Hardin County, Illinois.
Darwin	DARWIN CORRELATION: The typical pedon is from Union County, Illinois.
Drury	DRURY CORRELATION: The typical pedon is from Union County, Illinois. These areas were correlated in the 1978 published soil survey report of Union County.
Dupo	DUPO CORRELATION: The typical pedon is from Randolph County, Illinois (OSD type location). The OSD type location was moved from Johnson County, Illinois to a more central site for the series. DUPO SERIES ESTABLISHED: St. Clair County, Illinois, 1931. These areas were correlated in the 1978 published soil survey report of Union County. SCS analyzed at the University of Illinois Soils Lab data from sample S72IL-91-15 (1-8) sampled as Unnamed and correlated to Dupo.
Elsah	ELSAH CORRELATION: The typical pedon is from Alexander County, Illinois. It is the OSD type location for Elsah. ELSAH SERIES ESTABLISHED: Jersey County, Illinois, 1957.
Gorham	GORHAM CORRELATION: The typical pedon is from Jackson County, Illinois (OSD type location). GORHAM SERIES ESTABLISHED: Jackson County, Illinois, 1932. SCS analyzed at the University of Illinois Soils Lab data from sample S73IL-91-40 (1-8) and S74IL-91-56 (1-12); University of Illinois Department of Transportation Engineering Test data from sample 75IL091-9-(1-3). All were sampled and correlated as Gorham.
Goss	GOSS CORRELATION: The typical pedon is from Union County, Illinois.
Haymond	HAYMOND CORRELATION: The typical pedon is from Union County, Illinois. University of Illinois Department of Transportation Engineering Test data from sample 75IL091-4-1 sampled and correlated as Haymond.
Hosmer	HOSMER CORRELATION: The typical pedon is from Union County, Illinois. Soil Survey Investigation Unit, Lincoln, NE samples S73IL-91-35(73LI020-22), S73IL-91-36(73LI023-25) were sampled and correlated as Hosmer. Sample S73IL-91-37(73LI026-28) was sampled as Muren and correlated as Hosmer. University of Illinois Department of Transportation Engineering Test data from sample 75IL091-5-(1-2) sampled and correlated as Hosmer.

## Correlation Notes by Soil Series -- continued

Series Name	Series Note
Jacob	<p>JACOB CORRELATION: The typical pedon is from Jackson County, Illinois (OSD type location).            JACOB SERIES ESTABLISHED: Jackson County, Illinois, 1929.            SCS analyzed at the University of Illinois Soils Lab data from sample S72IL-9(1-7) sampled as Unnamed and correlated as Jacob. University of Illinois Department of Transportation Engineering Test data from sample 75IL091-1-1 sampled and correlated as Jacob.</p>
Karnak	<p>KARNAK CORRELATION: The typical pedon is from Massac County, Illinois (OSD type location).            KARNAK SERIES ESTABLISHED: Johnson County, Illinois, 1942.</p>
Medway	<p>MEDWAY CORRELATION: The typical pedon is from Union County, Illinois.            SCS analyzed at the University of Illinois Soils Lab data from sample S74IL-91-55 (1-13) sampled as Newart and correlated as Medway. University of Illinois Department of Transportation Engineering Test data from sample 75IL091-8-(1-3) sampled as Riley-Newart and correlated as Medway.</p>
Menfro	<p>MENFRO CORRELATION: The typical pedon is from St. Clair County, Illinois. MENFRO SERIES ESTABLISHED: Illinois, (III-2 Edwardsville project), 1939.            Alford soils previously mapped as 308, 5308, 930, 852 and 954 are correlated to Menfro, mu 79, 5079, 692, 694, 832, 833 and 834.</p>
Neotoma	<p>NEOTOMA CORRELATION: The typical pedon is from Union County, Illinois.</p>
Petrolia	<p>PETROLIA CORRELATION: The typical pedon is from Pulaski County, Illinois.</p>
Piopolis	<p>PIOPOLIS CORRELATION: The typical pedon is from Hamilton County, Illinois (OSD type location).            PIOPOLIS SERIES ESTABLISHED: Johnson County, Illinois, 1954.</p>
Sarpy	<p>SARPY CORRELATION: The typical pedon is from Alexander County, Illinois.</p>
Stoy	<p>STOY CORRELATION: The typical pedon is from Gallatin County, Illinois.            STOY SERIES ESTABLISHED: Lawrence County, Illinois, 1952.            Stoy soils have fragic properties.</p>
Tice	<p>TICE CORRELATION: The typical pedon is from Union County, Illinois.            University of Illinois Department of Transportation Engineering Test data from sample 75IL09110-(1-2) were sampled and correlated as Tice.</p>
Wakeland	<p>WAKELAND CORRELATION: The typical pedon is from Union County, Illinois.</p>
Ware	<p>WARE CORRELATION: The typical pedon is from Jackson County, Illinois (OSD type location).            WARE SERIES ESTABLISHED: Alexander County, Illinois, 1967.            SCS analyzed at the University of Illinois Soils Lab data from sample S74IL-91-54 (1-11) sampled as and correlated as Ware. University of Illinois Department of Transportation Engineering Test data from sample 75IL091-7-(1-3) sampled and correlated as Ware.</p>
Wellston	<p>WELLSTON CORELLATION: The typical pedon of Wellston is from Massac County, Illinois.</p>
Westmore	<p>WESTMORE CORRELATION: The typical pedon is from Union County, Illinois.</p>
Winfield	<p>WINFIELD CORRELATION: The typical pedon is from St. Clair County, Illinois.            Alford soils previously mapped as 308, 930, 852 and 954 are correlated to Winfield mu 477. They occur on the upper footslopes and lower portions on the backslopes on complex slopes.</p>
Zanesville	<p>ZANESVILLE CORRELATION: The typical pedon is from Pope County, Illinois.</p>

## UNION COUNTY, ILLINOIS 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
75B	Drury silt loam, 2 to 5 percent slopes
79B	Menfro silt loam, 2 to 5 percent slopes
164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes
214B	Hosmer silt loam, 2 to 5 percent slopes
477B	Winfield silt loam, 2 to 5 percent slopes
3071A	Darwin 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)
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
3288A	Petrolia 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)
3331A	Haymond silt loam, 0 to 3 percent slopes, frequently flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season)
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded (Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season)
3456B	Ware fine sandy loam, 1 to 6 percent slopes, frequently flooded
5079B2	Menfro silt loam, karst, 2 to 5 percent slopes, eroded
5214B2	Hosmer silt loam, karst, 2 to 5 percent slopes, eroded
5333A	Wakeland silt loam, karst, 0 to 2 percent slopes (Prime farmland if drained)
8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)
8162A	Gorham silty clay loam, 0 to 3 percent slopes, occasionally flooded (Prime farmland if drained)
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
8331A	Haymond silt loam, 0 to 3 percent slopes, occasionally flooded
8333A	Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)
8334A	Birds silt loam, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)
8420A	Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)
8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded
8456B	Ware loam, 1 to 6 percent slopes, occasionally flooded
8475B	Elsah silt loam, 1 to 4 percent slopes, occasionally flooded
8589B	Bowdre silty clay, 1 to 6 percent slopes, occasionally flooded
8590A	Cairo silty clay, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)
8682B	Medway silty clay loam, 1 to 6 percent slopes, occasionally flooded
8787A	Banlic silt loam, 0 to 2 percent slopes, occasionally flooded (Prime farmland if drained)

## Classification of the Soils Union County, Illinois

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

Soil Name	Family or higher taxonomic class
Banlic-----	Coarse-silty, mixed, active, acid, mesic Fragic Epiaquepts
Baxter-----	Fine, mixed, semiactive, mesic Typic PaleudalFs
Berks-----	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
Birds-----	Fine-silty, mixed, superactive, nonacid, mesic Typic Fluvaquents
Bowdre-----	Clayey over loamy, smectitic, thermic Fluvaquentic Hapludolls
Burnside-----	Loamy-skeletal, mixed, active, mesic Oxyaquic Dystrudepts
*Cairo-----	Clayey over sandy or sandy-skeletal, smectitic, thermic Vertic Endoaquolls
Cape-----	Fine, smectitic, acid, mesic Vertic Fluvaquents
Clarksville-----	Loamy-skeletal, siliceous, semiactive, mesic Typic Paleudults
*Darwin-----	Fine, smectitic, mesic Fluvaquentic Vertic Endoaquolls
Drury-----	Fine-silty, mixed, superactive, mesic Dystric Eutrudepts
Dupo-----	Coarse-silty over clayey, mixed over smectitic, superactive, nonacid, mesic Aquic Udifluvents
Elsah-----	Loamy-skeletal, mixed, superactive, nonacid, mesic Typic Udifluvents
Gorham-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Endoaquolls
Goss-----	Clayey-skeletal, mixed, active, mesic Typic PaleudalFs
Haymond-----	Coarse-silty, mixed, superactive, mesic Dystric Fluventic Eutrudepts
Hosmer-----	Fine-silty, mixed, active, mesic Oxyaquic FragiudalFs
Jacob-----	Very-fine, smectitic, acid, mesic Vertic Endoaquepts
Karnak-----	Fine, smectitic, nonacid, mesic Vertic Endoaquepts
*Medway-----	Fine-loamy, mixed, superactive, mesic Fluvaquentic Hapludolls
Menfro-----	Fine-silty, mixed, superactive, mesic Typic HapludalFs
Muskingum-----	Fine-loamy, mixed, active, mesic Typic Dystrudepts
Neotoma-----	Loamy-skeletal, mixed, active, mesic Ultic HapludalFs
<sup>1</sup> Orthents, loamy-----	Fine-loamy, mixed, active, nonacid, mesic Typic Udorthents
<sup>2</sup> Orthents, silty-----	Fine-silty, mixed, superactive, nonacid, mesic Aquic Udorthents
Petrolia-----	Fine-silty, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
Piopolis-----	Fine-silty, mixed, active, acid, mesic Typic Fluvaquents
*Sarpy-----	Mixed, mesic Typic Udipsamments
Stookey-----	Fine-silty, mixed, superactive, mesic Typic HapludalFs
Stoy-----	Fine-silty, mixed, superactive, mesic Fragiaquic HapludalFs
Tice-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Wakeland-----	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents
*Ware-----	Coarse-loamy, mixed, active, thermic Fluventic Hapludolls
Weir-----	Fine, smectitic, mesic Typic EndoaqualFs
Wellston-----	Fine-silty, mixed, active, mesic Ultic HapludalFs
Westmore-----	Fine-silty, mixed, active, mesic Typic HapludalFs
Winfield-----	Fine-silty, mixed, superactive, mesic Oxyaquic HapludalFs
Zanesville-----	Fine-silty, mixed, active, mesic Oxyaquic FragiudalFs

- \* **Cairo, Darwin, Medway, and Ware** taxadjuncts to their series because of stratification in the upper part of the profile. **Cairo** soils also lack the required abrupt textural change between the clayey and sandy layers defined in the series. **Sarpy** is a taxadjunct to the series because most pedons contain thin loamy subhorizons in the control section.
1. All mapping units of **Cairo** and **Sarpy** are taxadjuncts to the series.
  2. Only mapping units of **Darwin, Medway** and **Ware** with a flooding frequency of **3** are taxadjuncts to the series.

Temperature studies indicate, in general, the soils on the uplands are mesic and the soils on the Mississippi River bottomlands are thermic; thus both regimes were used in the survey area. (Union County Correlation - August 1977.) Two follow-up soil temperature studies (1997-2001) have been conducted during this update.

<sup>1</sup> **Silty Orthents** are usually cut and fill areas on uplands. They are mainly borrow pits and fill areas.

<sup>2</sup> **Loamy Orthents** are usually the levees along the Mississippi River and Cedar Creek.

## Certification Statement

The MLRA Region 11 Team Leader certifies that:

a. The fieldwork activities were completed in November 2000.

b. Union County joins four modern soil surveys:

Jackson County - Modern soil survey (1979)

Pulaski/Alexander Counties – Modern soil survey (1968)

Johnson County – Modern soil survey (1964)

Williamson County – Modern soil survey (1959)

These counties have an acceptable join and will have an exact join when they are updated to the MLRA legend.

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

d. The locations of all typical pedons have been checked for accuracy, and that they occur in delineations using those names. Typical pedons are those that represent the taxonomic units in MLRA's 115B and 120. Not all typical pedons are located in Union County but are within other subsets of the MLRA.

e. All typical pedons are classified according to Soil Taxonomy, Second Edition, 1999.

f. The digital soil maps, once complete, will be reviewed for accuracy and consistency prior to certification.

### Approval Signature and Date:

\_\_\_\_\_  
Travis Neely                      Date  
Team Leader, MLRA Region 11  
Indianapolis, Indiana

\_\_\_\_\_  
William J. Gradle                      Date  
State Conservationist  
Champaign, Illinois