

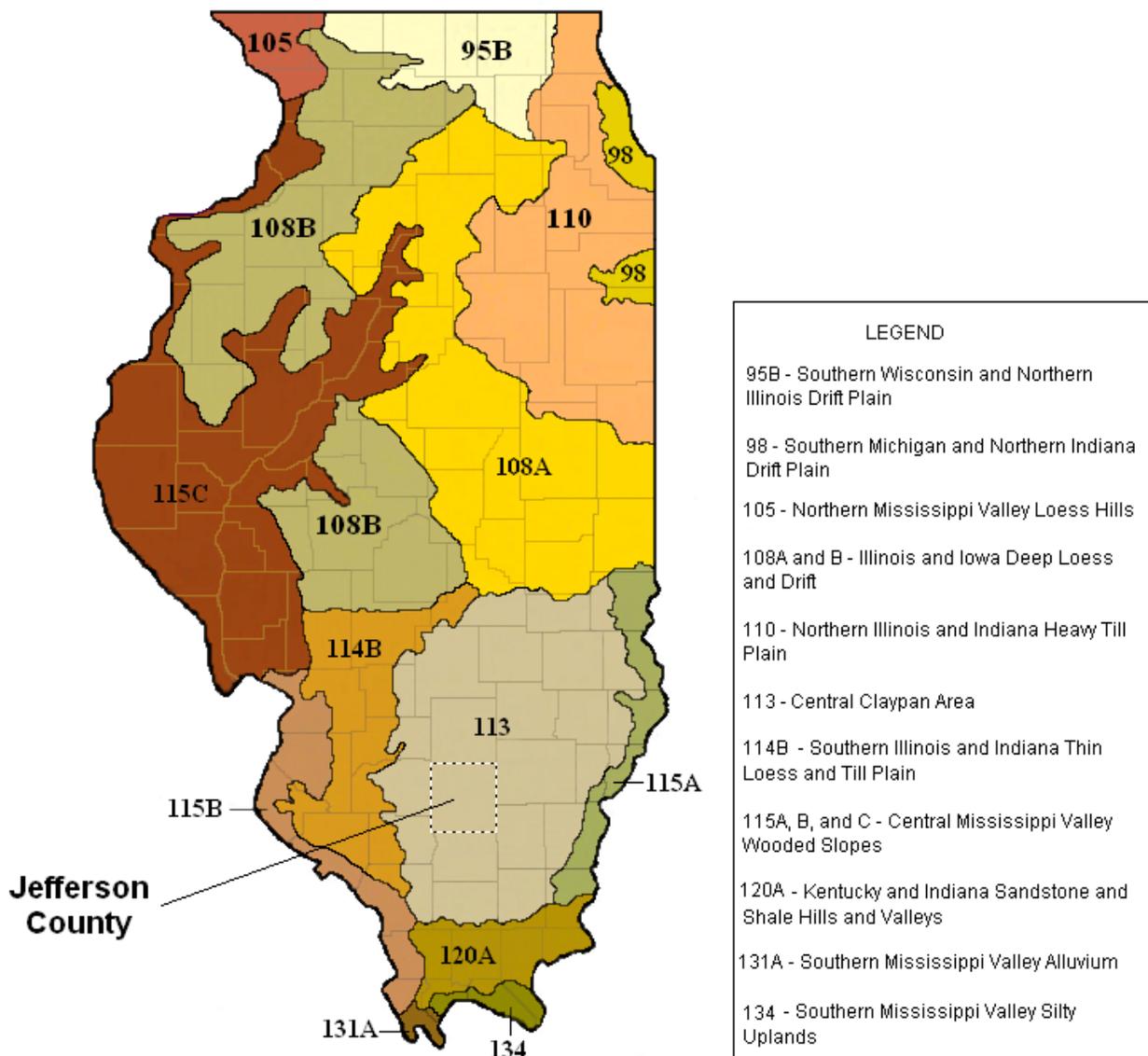
United States Department  
of Agriculture

Natural Resources  
Conservation Service

East Central Glaciated  
Regional MLRA  
Soil Survey Office  
Indianapolis, IN

# Classification and Correlation of Soils in Jefferson County, Illinois

A Subset of MLRA 113



December 2005

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**United States Department of Agriculture**

**Natural Resources Conservation Service**

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

**A Subset of MLRA 113**

**December 2005**

This correlation was prepared by John C. Doll, Soil Scientist, NRCS, Champaign, Illinois, Gary Struben, Soil Data Quality Specialist (SDQS), MLRA Region 11 team, Indianapolis, Indiana, Sam Indorante, MLRA Project Leader, Dwayne Williams, NRCS, Soil Scientist, and Bryan Fitch, NRCS, Soil Scientist. Jacey Jones, NRCS, Soil Scientist, Jon Bathgate, NRCS, GIS Specialist; Matt McCauley, NRCS Resource Soil Scientist, provided information relating to the recorrelation of the soils in Franklin County, a subset of MLRA 113. A correlation conference was held from August 23 to August 25, 2005. Those participating in the conference were the same people previously listed and Dena Marshall, NRCS, Soil Scientist, Indiana.

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 Jefferson County soil maps, the descriptive legend in the “Classification and Correlation of the Soils of Franklin and Jefferson Counties, Illinois” – March 1997, and the text and tables in the published Soil Survey of Franklin and Jefferson Counties, Illinois Report (Issued 2003).

Headnote for detailed soil survey legend:

This update of Jefferson County, Illinois is a subset of the Soil Survey of Major Land Resource Area (MLRA) 113. 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 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. Map units without a capital letter are miscellaneous areas.

## Soil Correlation of Jefferson County, Illinois

(This legend represents the majority of the standard correlations that took place with this update. With certain polygons, however, correlations were made outside this legend that were based on field investigations, enhanced photo tones, changes in land use, and/or refined soil-landscape relationships.)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
2 2A	Cisne silt loam Cisne silt loam, 0 to 2 percent slopes	2A	Cisne silt loam, 0 to 2 percent slopes
3A	Hoyleton silt loam, 0 to 2 percent slopes	3A	Hoyleton silt loam, 0 to 2 percent slopes
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded	3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
4B2	Richview silt loam, 2 to 5 percent slopes, eroded	4B2	Richview silt loam, 2 to 5 percent slopes, eroded
4C2	Richview silt loam, 5 to 10 percent slopes, eroded	4C2	Richview silt loam, 5 to 10 percent slopes, eroded
5C2	Blair silt loam, 5 to 10 percent slopes, eroded	5C2	Blair silt loam, 5 to 10 percent slopes, eroded
5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded	5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded
7C2	Atlas silt loam, 5 to 10 percent slopes, eroded	7C2	Atlas silt loam, 5 to 10 percent slopes, eroded
7D2	Atlas silt loam, 10 to 18 percent slopes, eroded	7D2	Atlas silt loam, 10 to 18 percent slopes, eroded
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded	8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded	8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
8F	Hickory silt loam, 18 to 35 percent slopes	8F	Hickory silt loam, 18 to 35 percent slopes
8G	Hickory silt loam, 35 to 60 percent slopes	8G	Hickory silt loam, 35 to 60 percent slopes
10C	Plumfield silty clay loam, 5 to 10 percent slopes	10C	Plumfield silty clay loam, 5 to 10 percent slopes
10D	Plumfield silty clay loam, 10 to 18 percent slopes	10D	Plumfield silty clay loam, 10 to 18 percent slopes
12 12A	Wynoose silt loam Wynoose silt loam, 0 to 2 percent slopes	12A	Wynoose silt loam, 0 to 2 percent slopes
13A	Bluford silt loam, 0 to 2 percent slopes	13A	Bluford silt loam, 0 to 2 percent slopes
13B2	Bluford silt loam, 2 to 5 percent slopes, eroded	13B2	Bluford silt loam, 2 to 5 percent slopes, eroded

Soil Correlation of Jefferson County, Illinois - continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
14B	Ava silt loam, 2 to 5 percent slopes	14B	Ava silt loam, 2 to 5 percent slopes
14B2	Ava silt loam, 2 to 5 percent slopes, eroded	14B2	Ava silt loam, 2 to 5 percent slopes, eroded
14C2	Ava silt loam, 5 to 10 percent slopes, eroded	14C2	Ava silt loam, 5 to 10 percent slopes, eroded
109 109A	Raccoon silt loam Raccoon silt loam, 0 to 2 percent slopes	109A	Raccoon silt loam, 0 to 2 percent slopes
287 287A	Chauncey silt loam Chauncey silt loam, 0 to 2 percent slopes	287A	Chauncey silt loam, 0 to 2 percent slopes
301B	Grantsburg silt loam, 2 to 5 percent slopes	301B	Grantsburg silt loam, 2 to 5 percent slopes
301C3	Grantsburg silty clay loam, 5 to 10 percent slopes, severely eroded	301C3	Grantsburg silty clay loam, 5 to 10 percent slopes, severely eroded
337A	Creal silt loam, 0 to 2 percent slopes	337A	Creal silt loam, 0 to 2 percent slopes
340D3	Zanesville silty clay loam, 10 to 18 percent slopes, severely eroded	340D3	Zanesville silty clay loam, 10 to 18 percent slopes, severely eroded
376 376A	Cisne silt loam, bench Cisne silt loam, bench, 0 to 2 percent slopes	376A	Cisne silt loam, bench, 0 to 2 percent slopes
377A	Hoyleton silt loam, bench, 0 to 2 percent slopes	377A	Hoyleton silt loam, bench, 0 to 2 percent slopes
377B2	Hoyleton silt loam, bench, 2 to 5 percent slopes, eroded	377B2	Hoyleton silt loam, bench, 2 to 5 percent slopes, eroded
421G	Kell silt loam, 35 to 60 percent slopes	421G	Kell silt loam, 35 to 60 percent slopes
518B	Rend silt loam, 2 to 5 percent slopes	518B	Rend silt loam, 2 to 5 percent slopes
518B2	Rend silt loam, 2 to 5 percent slopes, eroded	518B2	Rend silt loam, 2 to 5 percent slopes, eroded
518C2	Rend silt loam, 5 to 10 percent slopes, eroded	518C2	Rend silt loam, 5 to 10 percent slopes, eroded
533	Urban land	533	Urban land
536	Dumps, mine	536	Dumps, mine
583B	Pike silt loam, 2 to 5 percent slopes	583B	Pike silt loam, 2 to 5 percent slopes
583C2	Pike silt loam, 5 to 10 percent slopes, eroded	583C2	Pike silt loam, 5 to 10 percent slopes, eroded
639 639A	Wynoose silt loam, bench Wynoose silt loam, bench, 0 to 2 percent slopes	639A	Wynoose silt loam, bench, 0 to 2 percent slopes
640A	Bluford silt loam, bench, 0 to 2 percent slopes	640A	Bluford silt loam, bench, 0 to 2 percent slopes

Soil Correlation of Jefferson County, Illinois - continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
802B	Orthents, loamy, undulating	802B	Orthents, loamy, undulating
802F	Orthents, loamy, hilly and very hilly	802F	Orthents, loamy, hilly and very hilly
823B 823B	Schuline silt loam, 1 to 5 percent slopes Schuline silt loam, 2 to 5 percent slopes	823B	Schuline silt loam, 1 to 5 percent slopes
866	Dumps, slurry	866	Dumps, slurry
871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes	871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes
871G 871G	Lenzburg gravelly silty clay loam, 20 to 60 percent slopes Lenzburg gravelly silty clay loam, 20 to 60 percent slopes, stony	871G	Lenzburg gravelly silty clay loam, 20 to 60 percent slopes, stony
786D2 908F	Frondorf silt loam, 10 to 18 percent slopes, eroded Hickory-Kell silt loams, 18 to 35 percent	908F	Hickory-Kell silt loams, 18 to 35 percent slopes
551D2 927D3	Gosport loam, 10 to 18 percent slopes, eroded Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded	927D3	Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
1108 1108A	Bonnie silt loam, undrained, frequently flooded Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded	1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded
3072 3072A	Sharon silt loam, frequently flooded Sharon silt loam, 0 to 2 percent slopes, frequently flooded	3072A	Sharon silt loam, 0 to 2 percent slopes, frequently flooded
3108 3108A	Bonnie silt loam, frequently flooded Bonnie silt loam, 0 to 2 percent slopes, frequently flooded	3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
3226 3226A	Wirt silt loam, frequently flooded Wirt silt loam, 0 to 2 percent slopes, frequently flooded	3226A	Wirt silt loam, 0 to 2 percent slopes, frequently flooded
3336 3336A	Wilbur silt loam, frequently flooded Wilbur silt loam, 0 to 2 percent slopes, frequently flooded	3336A	Wilbur silt loam, 0 to 2 percent slopes, frequently flooded
3382 3382A	Belknap silt loam, frequently flooded Belknap silt loam, 0 to 2 percent slopes, frequently flooded	3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded

Soil Correlation of Jefferson County, Illinois - continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
3415	Orion silt loam, frequently flooded	3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded
3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded		
3422	Cape silty clay loam, frequently flooded	3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded		
MW W<40	Miscellaneous water Water less than 40 acres	MW	Miscellaneous water
W W<40 W>40	Water Water less than 40 acres Water greater than 40 acres	W	Water

### **Series Established By This Correlation**

None

### **Series Added To The March 2003 Legend**

None

### **Series Dropped From March 2003 Legend**

Parke. (Okaw, Colp, Hurst, Jacob, and Wellston map units were mapped in Franklin County but were not in Jefferson County).

### **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

The credits to be given on page ii of the published soil survey are as follows: “This survey was made cooperatively by the Natural Resources Conservation Service and the Illinois Agricultural Experiment Station. It is part of the technical assistance furnished to the Jefferson County Soil and Water Conservation District. The cost was shared by the Jefferson County Board and the Illinois Department of Agriculture.”

### **Prior Soil Survey Publications**

The last soil survey of Jefferson County was as part of the initial mapping and as reported in the Soil Survey of Franklin and Jefferson Counties, Illinois. Reference to the soil survey of Franklin and Jefferson Counties, Illinois will be included in the literature citation of the manuscript. This update replaces the Jefferson County portion of the Soil Survey of Franklin and Jefferson Counties, Illinois. This update 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 digitizing and map finishing have been completed for this soil survey.

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

No Special Features are shown on the digitized maps in this update. Only those features and symbols on the NRCS-SOI-37a will appear on the finished soil maps for publication.

NRCS-SOI-37a  
 REVISED MAY  
 2001

**FEATURE AND SYMBOL  
 LEGEND  
 FOR SOIL SURVEY**

U.S. DEPARTMENT OF  
 AGRICULTURE  
 NATURAL RESOURCES  
 CONSERVATION SERVICE

Soil Survey Area  
**Jefferson County**

State **ILLINOIS**

Date: **December 2005**

**SOIL SURVEY FEATURES**

SOIL DELINEATIONS AND LABELS	
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**CULTURAL FEATURES  
 (Optional)**

BOUNDARIES

County or parish	- - - - -
Field sheet matchline and neatline	_____
Public Land Survey System Section Corner Tics.	L    ⊥    ⊕

## Soil Mapunit Symbol Conversion Legend of Jefferson County, Illinois

(This legend represents the majority of the standard correlations that took place with this update. With certain polygons, however, correlations were made outside this legend which were based on field investigations, enhanced photo tones, changes in land use, and/or refined soil-landscape relationships.)

Field Symbol	Publication Symbol
2	2A
2A	2A
3A	3A
3B2	3B2
4B2	4B2
4C2	4C2
5C2	5C2
5C3	5C3
7C2	7C2
7D2	7D2
8D2	8D2
8D3	8D3
8F	8F
8G	8G
10C	10C
10D	10D
12	12A
12A	12A
13A	13A
13B2	13B2

Field Symbol	Publication Symbol
14B	14B
14B2	14B2
14C2	14C2
109	109A
109A	109A
287	287A
287A	287A
301B	301B
301C3	301C3
337A	337A
340D3	340D3
376	376A
376A	376A
377A	377A
377B2	377B2
421G	421G
518B	518B
518B2	518B2
518C2	518C2
533	533

Field Symbol	Publication Symbol
536	536
551D2	927D3
583B	583B
583C2	583C2
639	639A
639A	639A
640A	640A
786D2	908F
802B	802B
802F	802F
823B	823B
866	866
871D	871D
871G	871G
908F	908F
927D3	927D3
1108	1108A
1108A	1108A

Field Symbol	Publication Symbol
3072	3072A
3072A	3072A
3108	3108A
3108A	3108A
3226	3226A
3226A	3226A
3336	3336A
3336A	3336A
3382	3382A
3382A	3382A
3415	3415A
3415A	3415A
3422	3422A
3422A	3422A
MW	MW
W	W
W<40	MW
W<40	W
W>40	W

## ALPHABETIC SOIL MAP LEGEND of Jefferson County, Illinois

Map Symbol	Soil Name
7C2	Atlas silt loam, 5 to 10 percent slopes, eroded
7D2	Atlas silt loam, 10 to 18 percent slopes, eroded
14B	Ava silt loam, 2 to 5 percent slopes
14B2	Ava silt loam, 2 to 5 percent slopes, eroded
14C2	Ava silt loam, 5 to 10 percent slopes, eroded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
927D3	Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
5C2	Blair silt loam, 5 to 10 percent slopes, eroded
5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded
13A	Bluford silt loam, 0 to 2 percent slopes
13B2	Bluford silt loam, 2 to 5 percent slopes, eroded
640A	Bluford silt loam, bench, 0 to 2 percent slopes
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
287A	Chauncey silt loam, 0 to 2 percent slopes
2A	Cisne silt loam
376A	Cisne silt loam, bench, 0 to 2 percent slopes
337A	Creal silt loam, 0 to 2 percent slopes
536	Dumps, mine
866	Dumps, slurry
301B	Grantsburg silt loam, 2 to 5 percent slopes
301C3	Grantsburg silty clay loam, 5 to 10 percent slopes, severely eroded
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
908F	Hickory-Kell silt loams, 18 to 35 percent slopes
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8F	Hickory silt loam, 18 to 35 percent slopes
8G	Hickory silt loam, 35 to 60 percent slopes
3A	Hoyleton silt loam, 0 to 2 percent slopes
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
377A	Hoyleton silt loam, bench, 0 to 2 percent slopes
377B2	Hoyleton silt loam, bench, 2 to 5 percent slopes, eroded
421G	Kell silt loam, 35 to 60 percent slopes
871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes
871G	Lenzburg gravelly silty clay loam, 20 to 60 percent slopes, stony
MW	Miscellaneous water
3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded
802F	Orthents, loamy, hilly and very hilly
802B	Orthents, loamy, undulating
583B	Pike silt loam, 2 to 5 percent slopes
583C2	Pike silt loam, 5 to 10 percent slopes, eroded
10C	Plumfield silty clay loam, 5 to 10 percent slopes
10D	Plumfield silty clay loam, 10 to 18 percent slopes
109A	Racoon silt loam, 0 to 2 percent slopes
518B	Rend silt loam, 2 to 5 percent slopes
518B2	Rend silt loam, 2 to 5 percent slopes, eroded
518C2	Rend silt loam, 5 to 10 percent slopes, eroded
4B2	Richview silt loam, 2 to 5 percent slopes, eroded
4C2	Richview silt loam, 5 to 10 percent slopes, eroded
823B	Schuline silt loam, 1 to 5 percent slopes
3072A	Sharon silt loam, 0 to 2 percent slopes, frequently flooded
533	Urban land
W	Water
3336A	Wilbur silt loam, 0 to 2 percent slopes, frequently flooded
3226A	Wirt silt loam, 0 to 2 percent slopes, frequently flooded
12A	Wynoose silt loam, 0 to 2 percent slopes
639A	Wynoose silt loam, bench, 0 to 2 percent slopes
340D3	Zanesville silty clay loam, 10 to 18 percent slopes, severely eroded

## NUMERICAL SOIL MAP LEGEND of Jefferson County, Illinois

Map Symbol	Soil Name
2A	Cisne silt loam
3A	Hoyleton silt loam, 0 to 2 percent slopes
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
4B2	Richview silt loam, 2 to 5 percent slopes, eroded
4C2	Richview silt loam, 5 to 10 percent slopes, eroded
5C2	Blair silt loam, 5 to 10 percent slopes, eroded
5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded
7C2	Atlas silt loam, 5 to 10 percent slopes, eroded
7D2	Atlas silt loam, 10 to 18 percent slopes, eroded
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
8F	Hickory silt loam, 18 to 35 percent slopes
8G	Hickory silt loam, 35 to 60 percent slopes
10C	Plumfield silty clay loam, 5 to 10 percent slopes
10D	Plumfield silty clay loam, 10 to 18 percent slopes
12A	Wynoose silt loam, 0 to 2 percent slopes
13A	Bluford silt loam, 0 to 2 percent slopes
13B2	Bluford silt loam, 2 to 5 percent slopes, eroded
14B	Ava silt loam, 2 to 5 percent slopes
14B2	Ava silt loam, 2 to 5 percent slopes, eroded
14C2	Ava silt loam, 5 to 10 percent slopes, eroded
109A	Raccoon silt loam, 0 to 2 percent slopes
287A	Chauncey silt loam, 0 to 2 percent slopes
301B	Grantsburg silt loam, 2 to 5 percent slopes
301C3	Grantsburg silty clay loam, 5 to 10 percent slopes, severely eroded
337A	Creal silt loam, 0 to 2 percent slopes
340D3	Zanesville silty clay loam, 10 to 18 percent slopes, severely eroded
376A	Cisne silt loam, bench, 0 to 2 percent slopes
377A	Hoyleton silt loam, bench, 0 to 2 percent slopes
377B2	Hoyleton silt loam, bench, 2 to 5 percent slopes, eroded
421G	Kell silt loam, 35 to 60 percent slopes
518B	Rend silt loam, 2 to 5 percent slopes
518B2	Rend silt loam, 2 to 5 percent slopes, eroded
518C2	Rend silt loam, 5 to 10 percent slopes, eroded
533	Urban land
536	Dumps, mine
583B	Pike silt loam, 2 to 5 percent slopes
583C2	Pike silt loam, 5 to 10 percent slopes, eroded
639A	Wynoose silt loam, bench, 0 to 2 percent slopes
640A	Bluford silt loam, bench, 0 to 2 percent slopes
802B	Orthents, loamy, undulating
802F	Orthents, loamy, hilly and very hilly
823B	Schuline silt loam, 1 to 5 percent slopes
866	Dumps, slurry
871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes
871G	Lenzburg gravelly silty clay loam, 20 to 60 percent slopes, stony
908F	Hickory-Kell silt loams, 18 to 35 percent slopes
927D3	Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded
3072A	Sharon silt loam, 0 to 2 percent slopes, frequently flooded
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
3226A	Wirt silt loam, 0 to 2 percent slopes, frequently flooded
3336A	Wilbur silt loam, 0 to 2 percent slopes, frequently flooded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
3415A	Orion silt loam, 0 to 2 percent slopes, frequently flooded
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
MW	Miscellaneous water
W	Water

## Notes to Accompany the Classification and Correlation of the Soils in Jefferson County, Illinois - Prepared by Dwayne Williams

1. Some published map units did not have a slope class letter in the map symbol and the slope range was not in the map unit name. This update adds a slope class letter to the mapunit symbol and a slope range to the mapunit name.
2. Map unit 786 (Frondorf) was correlated to Hickory-Kell.

### Mapunit History Notes For Jefferson County, Illinois

Map Symbol	Map Unit Name	Mapunit History Notes
8G	Hickory silt loam, 35 to 60 percent slopes	Mapping unit 8G was added to the legend to join with Perry and Marion counties.
583B	Pike silt loam, 2 to 5 percent slopes	Pike soils in this survey as taxadjuncts to the series. They have a base saturation of more than 60 percent at 125cm below the top of the argillic. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.
583C2	Pike silt loam, 5 to 10 percent slopes, eroded	Pike soils in this survey as taxadjuncts to the series. They have a base saturation of more than 60 percent at 125cm below the top of the argillic. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.
823B	Schuline silt loam, 1 to 5 percent slopes	<p>The Schuline soils in this survey average more than 15% gravel and channers in the upper meter of the profile. They are not considered taxadjuncts for this reason.</p> <p>Some of the Schuline in Jefferson County has a percent coarse fragments higher than allowed for the series(&gt; 15%). The Schuline typical pedon for the county is located in Jefferson County. It has 23% gravels and channers in the upper meter of the profile. This may affect use and mangement. Some of these areas appear to have been originally field mapped as Lenzburg (871B). These areas need to be looked at as part of the MLRA in future updates.</p>
908F	Hickory-Kell silt loams, 18 to 35 percent slopes	Some areas of Hickory soils located on the steeper slopes are correlated to Hickory-Kell. There are no acres of Hickory (8G) mapped in Franklin County. Some small areas of Hickory (8F) are mapped on the Hamilton County line, but no acres are listed in the Franklin County published soil survey.
927D3	Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded	<p>Correlation note from the 1997 Franklin-Jefferson correlation.</p> <p>"Series typical pedon in this survey area is from map unit 5C3 and is fine-silty. However, some of these soils in mapping unit 5C3 have a higher content of sand in the upper part of the particle size control section. They classify as fine-loamy, mixed, mesic Aquic Hapludalfs. These areas were mapped as unit 927C3 on the original field sheets. All of the Blair soils in map unit 927D3 are fine-loamy and are considered to be taxadjuncts. These fine-loamy components may be separated out as a new series in future updates. Also, mapping unit 5C2 is added to the legend for joining at county lines; the map unit pedon and map unit description is from the Wayne County soil survey."</p>

## Jefferson County Correlation Notes by Soil Series

SERIES NAME	SERIES NOTES
Atlas	The typical pedon is from Jefferson County, Illinois.
Ava	The typical pedon is from Edwards County, Illinois. (OSD type location).
Belknap	The typical pedon is from Wabash County, Illinois. (OSD type location).
Blair	The typical pedon is from Perry County, Illinois. (OSD type location).
*Blair	The typical pedon is from Perry County, Illinois. (OSD type location). The Blair soils mapped in mapping unit 927D3 are taxadjuncts to the series because they are fine-loamy instead of fine-silty. They are classified as fine-loamy, mixed, superactive, mesic Aquic Hapludalfs.
Bluford	The typical pedon is from Franklin County, Illinois. (OSD type location).
Bonnie	The typical pedon is from Franklin County, Illinois. (OSD type location).
Cape	The typical pedon is from Saline County, Illinois. (OSD type location).
Chauncey	The typical pedon is from Jefferson County, Illinois.
Cisne	The typical pedon is from Jasper County, Illinois. (OSD type location).
Creal	The typical pedon is from Hamilton County, Illinois. (OSD type location)
Grantsburg	The typical pedon is from Pope County, Illinois. (OSD type location).
Hickory	The typical pedon is from Jefferson County, Illinois.
Hoyleton	The typical pedon is from Shelby County, Illinois. (OSD type location).
Kell	The typical pedon is from Jefferson County, Illinois. (OSD type location).
Lenzburg	The typical pedon is from Randolph County, Illinois. (OSD type location).
*Orion	The typical pedon is from Marion County, Illinois. The Orion soils are taxadjuncts to the series. They are classified as coarse-loamy, mixed, superactive, nonacid, mesic Aquic Udifluvents.
*Pike	The typical pedon is from Franklin County, Illinois. The Pike soils are taxadjuncts to the series. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.
Plumfield	The typical pedon is from Franklin County, Illinois. (OSD type location).
Racoon	The typical pedon is from Saline County, Illinois. (OSD type location).
Rend	The typical pedon is from Franklin County, Illinois. (OSD type location).
Richview	The typical pedon is from Franklin County, Illinois.
Schuline	The typical pedon is from Perry County, Illinois. (OSD type location).
Sharon	The typical pedon is from Williamson County, Illinois. (OSD type location).
Wilbur	The typical pedon is from Washington County, Illinois.
Wirt	The typical pedon is from Monroe County.
Wynoose	The typical pedon is from Wayne County, Illinois. (OSD type location).
Zanesville	The typical pedon is from Pope County, Illinois.

## Classification of the Soils of Jefferson County, Illinois

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

Soil name	Family or higher taxonomic class
Atlas-----	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Ava-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Belknap-----	Coarse-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts
Blair-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
<sup>1</sup> *Blair-----	Fine-loamy, mixed, superactive, mesic Aquic Hapludalfs
Bluford-----	Fine, smectitic, mesic Aeric Fragic Epiaqualfs
Bonnie-----	Fine-silty, mixed, active, acid, mesic Typic Fluvaquents
Cape-----	Fine, smectitic, acid, mesic Vertic Endoaquepts
Chauncey-----	Fine, smectitic, mesic Typic Argialbolls
Cisne-----	Fine, smectitic, mesic Mollic Albaqualfs
Creal-----	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Grantsburg-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Hickory-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Hoyleton-----	Fine, smectitic, mesic Aquollic Hapludalfs
Kell-----	Fine-loamy, mixed, active, mesic Ultic Hapludalfs
Lenzburg-----	Fine-loamy, mixed, active, calcareous, mesic Haplic Udarents
<sup>2</sup> *Orion-----	Coarse-loamy, mixed, superactive, nonacid, mesic Aquic Udifulvents
Orthents-----	Fine-loamy, mixed, active, nonacid, mesic Typic Udorthents
<sup>3</sup> *Pike-----	Fine-silty, mixed, active, mesic Typic Hapludalfs
Plumfield-----	Fine-silty, mixed, active, mesic Aquic Fragiudalfs
Racoon-----	Fine-silty, mixed, superactive, mesic Typic Endoaqualfs
Rend-----	Fine-silty, mixed, active, mesic Fragic Oxyaquic Hapludalfs
Richview-----	Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs
Schuline-----	Fine-loamy, mixed, superactive, calcareous, mesic Alfic Udarents
Sharon-----	Coarse-silty, mixed, active, acid, mesic Oxyaquic Udifulvents
Wilbur-----	Coarse-silty, mixed, superactive, mesic Fluvaquentic Eutrudepts
Wirt-----	Coarse-loamy, mixed, superactive, mesic Dystric Fluventic Eutrudepts
Wynoose-----	Fine, smectitic, mesic Typic Albaqualfs
Zanesville-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs

<sup>1</sup> **Blair** soils in mapping unit 927D3 are fine-loamy instead of fine-silty. They are classified as fine-loamy, mixed, superactive, mesic Aquic Hapludalfs.

<sup>2</sup> **Orion** soils have slightly more sand in the particle-size control section than is defined as the range for the series. They are classified as coarse-loamy, mixed, superactive, nonacid, mesic Aquic Udifulvents.

<sup>3</sup> **Pike** soils have a base saturation of more than 60 percent at 125cm below the top of the argillic horizon. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.

## Certification Statement

The MLRA Region 11 Team Leader certifies that:

- a. The fieldwork activities are complete.
- b. Jefferson County joins Hamilton and Wayne Counties to the east, Franklin County to the south, Washington and Perry Counties to the west, and Marion County to the north. An exact join exists with Franklin County and will be achieved with the other counties as they are updated. An acceptable join exists with all of the adjacent survey areas.
- 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 113. Not all typical pedons are located in Jefferson County but are within other subsets of the MLRA.
- e. All typical pedons are classified according to the Keys To Soil Taxonomy, Ninth Edition, 2003.
- f. The digital soil maps will be reviewed for accuracy and consistency prior to SSURGO recertification.

## Approval Signature and Date:

\_\_\_\_\_  
Travis Neely

\_\_\_\_\_  
Date

Team Leader, MLRA Region 11

Indianapolis, Indiana

\_\_\_\_\_  
William J. Gradle

\_\_\_\_\_  
Date

State Conservationist

Champaign, Illinois