

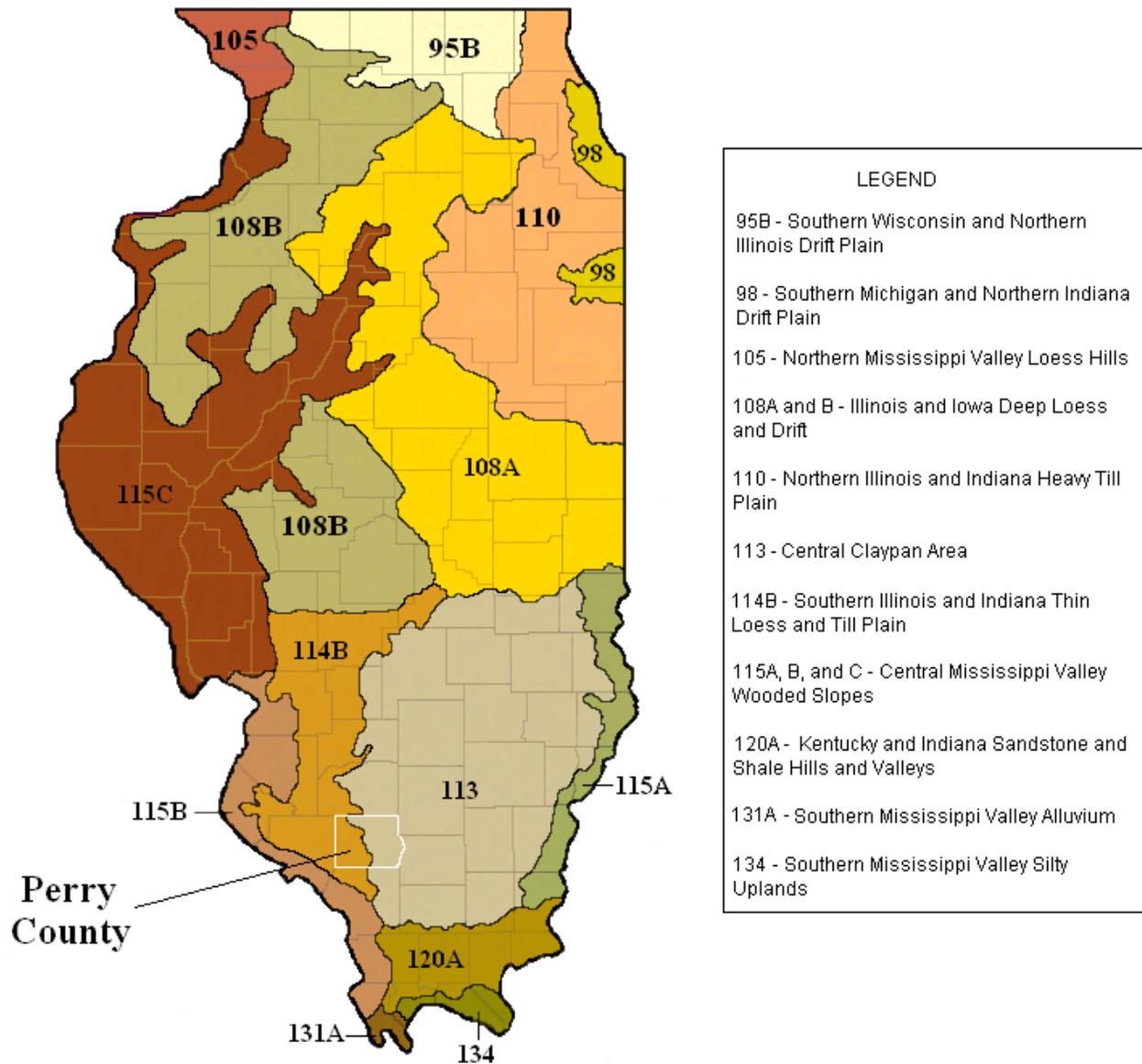
United States
Department of
Agriculture

Natural Resources
Conservation Service

East Central Glaciated
Regional MLRA
Soil Survey Office
Indianapolis, IN

Classification and Correlation of Soils In Perry County, Illinois

(a subset of MLRA 113 and 114B)



December 2005

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United States Department of Agriculture

Natural Resources Conservation Service

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

A Subset of MLRA 113 & 114B

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, 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 Perry County, a subset of MLRA 113 & 114B. 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 Perry County soil maps, the descriptive legend in the "Classification and Correlation of the Soils of Perry County, Illinois" – May 1984, and the text and tables in the published Perry County Soil Survey Report (also designated as Illinois Agricultural Experiment Station Report No. 125) – September 1988.

Headnote for detailed soil survey legend:

This update of Perry County, Illinois is an update of a subset of the Soil Survey of Major Land Resource Areas (MLRA) 113 & 114B. 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. 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 Perry 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
3B 3B	Hoyleton silt loam, 2 to 4 percent slopes Hoyleton silt loam, 2 to 5 percent slopes	3B	Hoyleton silt loam, 2 to 5 percent slopes
3B2 3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded Hoyleton silt loam, 2 to 6 percent slopes, eroded	3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
4B	Richview silt loam, 2 to 5 percent slopes	4B	Richview silt loam, 2 to 5 percent slopes
4C2	Richview silt loam, 5 to 10 percent slopes, eroded	4C2	Richview 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
5D	Blair silt loam, 10 to 18 percent slopes	5D	Blair silt loam, 10 to 18 percent slopes
5D3	Blair silty clay loam, 10 to 18 percent slopes, severely eroded	5D3	Blair silty clay loam, 10 to 18 percent slopes, severely eroded
7D3	Atlas silty clay loam, 10 to 18 percent slopes, severely eroded	7D3	Atlas silty clay loam, 10 to 18 percent slopes, severely eroded
8E 8F	Hickory silt loam, 18 to 30 percent slopes Hickory silt loam, 18 to 35 percent slopes	8F	Hickory silt loam, 18 to 35 percent slopes
8E3 8F3	Hickory silty clay loam, 18 to 30 percent slopes, severely eroded Hickory clay loam, 18 to 35 percent slopes, severely eroded	8F3	Hickory clay loam, 18 to 35 percent slopes, severely eroded
8G 8G	Hickory silt loam, 30 to 60 percent slopes Hickory silt loam, 35 to 70 percent slopes	8G	Hickory silt loam, 35 to 70 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
13B 13B	Bluford silt loam, 2 to 5 percent slopes Bluford silt loam, 2 to 4 percent slopes	13B	Bluford silt loam, 2 to 5 percent slopes
13B2 13B2	Bluford silt loam, 2 to 5 percent slopes, eroded Bluford silt loam, 2 to 6 percent slopes, eroded	13B2	Bluford silt loam, 2 to 5 percent slopes, eroded

Soil Correlation of Perry 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
14C3	Ava silty clay loam, 5 to 10 percent slopes, severely eroded	14C3	Ava silty clay loam, 5 to 10 percent slopes, severely eroded
31A 165	Pierron silt loam, 0 to 2 percent slopes Weir silt loam	31A	Pierron silt loam, 0 to 2 percent slopes
113 113A	Oconee silt loam Oconee silt loam, 0 to 2 percent slopes	113A	Oconee silt loam, 0 to 2 percent slopes
164A	Stoy silt loam, 0 to 2 percent slopes	164A	Stoy silt loam, 0 to 2 percent slopes
164B 164B	Stoy silt loam, 2 to 4 percent slopes Stoy silt loam, 2 to 5 percent slopes	164B	Stoy silt loam, 2 to 5 percent slopes
164B2 164B2	Stoy silt loam, 2 to 6 percent slopes, eroded Stoy silt loam, 2 to 5 percent slopes, eroded	164B2	Stoy silt loam, 2 to 5 percent slopes, eroded
515C3	Bunkum silty clay loam, 5 to 10 percent slopes, severely eroded	515C3	Bunkum silty clay loam, 5 to 10 percent slopes, severely eroded
517A	Marine silt loam, 0 to 2 percent slopes	517A	Marine silt loam, 0 to 2 percent slopes
517B	Marine silt loam, 2 to 5 percent slopes	517B	Marine silt loam, 2 to 5 percent slopes
536	Dumps, mine	536	Dumps, mine
581B2 581B2	Tamalco silt loam, 2 to 5 percent slopes, eroded Tamalco silt loam, 1 to 5 percent slopes, eroded	581B2	Tamalco silt loam, 2 to 5 percent slopes, eroded
214B 582B	Hosmer silt loam, 2 to 5 percent slopes Homen silt loam, 2 to 5 percent slopes	582B	Homen silt loam, 2 to 5 percent slopes
214C3 582C3	Hosmer silty clay loam, 5 to 10 percent slopes, severely eroded Homen silty clay loam, 5 to 10 percent slopes, severely eroded	582C3	Homen silty clay loam, 5 to 10 percent slopes, severely eroded
797D3 850D3	Hickory-Homen silty clay loams, 10 to 18 percent slopes, severely eroded Hickory-Hosmer silty clay loams, 10 to 18 percent slopes, severely eroded	797D3	Hickory-Homen silty clay loams, 10 to 18 percent slopes, severely eroded
802B	Orthents, loamy, undulating	802B	Orthents, loamy, undulating
821G	Morristown cobbly silty clay loam, 20 to 60 percent slopes, very stony	821G	Morristown cobbly silty clay loam, 20 to 60 percent slopes, very stony
823B	Schuline silt loam, 1 to 5 percent slopes	823B	Schuline silt loam, 1 to 5 percent slopes

Soil Correlation of Perry County, Illinois - continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
823C	Schuline silt loam, 5 to 10 percent slopes	823C	Schuline silt loam, 5 to 10 percent slopes
823D	Schuline silt loam, 10 to 15 percent slopes	823D	Schuline silt loam, 10 to 15 percent slopes
824B	Swanwick silt loam, 1 to 5 percent slopes	824B	Swanwick silt loam, 1 to 5 percent slopes
825C	Lenzburg silty clay loam, acid substratum, 2 to 12 percent slopes	825C	Lenzburg silty clay loam, acid substratum, 2 to 12 percent slopes
860D3	Homen-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded	860D3	Homen-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
866	Dumps, slurry	866	Dumps, slurry
871B	Lenzburg gravelly silty clay loam, 2 to 7 percent slopes, stony	871B	Lenzburg gravelly silty clay loam, 2 to 7 percent slopes, stony
871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes, stony	871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes, stony
871G	Lenzburg gravelly silty clay loam, 20 to 60 percent slopes, stony	871G	Lenzburg gravelly silty clay loam, 20 to 60 percent slopes, stony
882A 916	Oconee-Darmstadt-Coulterville silt loams, 0 to 2 percent slopes Oconee-Darmstadt silt loams	882A	Oconee-Darmstadt-Coulterville silt loams, 0 to 2 percent slopes
884B2	Bunkum-Coulterville silt loams, 2 to 5 percent slopes, eroded	884B2	Bunkum-Coulterville silt loams, 2 to 5 percent slopes, eroded
900E 908F	Hickory-Wellston silt loams, 18 to 30 percent slopes Hickory-Kell silt loams, 18 to 35 percent slopes	908F	Hickory-Kell silt loams, 18 to 35 percent slopes
900E3 908F3	Wellston-Hickory silty clay loams, 18 to 30 percent slopes, severely eroded Hickory-Kell silty clay loams, 18 to 35 percent slopes, severely eroded	908F3	Hickory-Kell silty clay loams, 18 to 35 percent slopes, severely eroded
900G 908G	Wellston-Hickory silt loams, 30 to 60 percent slopes Kell-Hickory silt loams, 35 to 70 percent slopes	908G	Kell-Hickory silt loams, 35 to 70 percent slopes
912A	Hoyleton-Darmstadt silt loams, 0 to 2 percent slopes	912A	Hoyleton-Darmstadt silt loams, 0 to 2 percent slopes
912B2 912B2	Darmstadt-Hoyleton silt loams, 2 to 6 percent slopes, eroded Hoyleton-Darmstadt silt loams, 2 to 5 percent slopes, eroded	912B2	Hoyleton-Darmstadt silt loams, 2 to 5 percent slopes, eroded
929D3	Hickory-Ava silty clay loams, 10 to 18 percent slopes, severely eroded	929D3	Hickory-Ava silty clay loams, 10 to 18 percent slopes, severely eroded

Soil Correlation of Perry County, Illinois - continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
991 991A	Cisne-Huey silt loams Cisne-Huey silt loams, 0 to 2 percent slopes	991A	Cisne-Huey silt loams, 0 to 2 percent slopes
1108 1108A	Bonnie silt loam, wet Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded	1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded
426 1846A	Karnak silty clay Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded	1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded
108 3108A	Bonnie silt loam Bonnie silt loam, 0 to 2 percent slopes, frequently flooded	3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded	3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
382 787 3382A	Belknap silt loam Banlic silt loam Belknap silt loam, 0 to 2 percent slopes, frequently flooded	3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
426 3422A	Karnak silty clay Cape silty clay, 0 to 2 percent slopes, frequently flooded	3422A	Cape silty clay, 0 to 2 percent slopes, frequently flooded
787 3787A	Banlic silt loam Banlic silt loam, 0 to 2 percent slopes, frequently flooded	3787A	Banlic silt loam, 0 to 2 percent slopes, frequently flooded
5002 5002A	Cisne silt loam, mine sinks Cisne silt loam, mine sinks, 0 to 2 percent slopes	5002A	Cisne silt loam, mine sinks, 0 to 2 percent slopes
5912 5912A	Hoyleton-Darmstadt silt loams, mine sinks Hoyleton-Darmstadt silt loams, mine sinks, 0 to 2 percent slopes	5912A	Hoyleton-Darmstadt silt loams, mine sinks, 0 to 2 percent slopes
26 7026A	Wagner silt loam Wagner silt loam, 0 to 2 percent slopes, rarely flooded	7026A	Wagner silt loam, 0 to 2 percent slopes, rarely flooded
84 7084A	Okaw silt loam Okaw silt loam, 0 to 2 percent slopes, rarely flooded	7084A	Okaw silt loam, 0 to 2 percent slopes, rarely flooded

Soil Correlation of Perry County, Illinois - continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
122B2	Colp silt loam, 2 to 7 percent slopes, eroded	7122B2	Colp silt loam, 2 to 5 percent slopes, eroded, rarely flooded
7122B2	Colp silt loam, 2 to 5 percent slopes, eroded, rarely flooded		
338	Hurst silt loam	7338A	Hurst silt loam, 0 to 2 percent slopes, rarely flooded
7338A	Hurst silt loam, 0 to 2 percent slopes, rarely flooded		
MW W	Miscellaneous water water	MW	Miscellaneous water
W	Water	W	Water

Series Established by this Correlation

None

Series or Other Components Added to Previously Correlated Legend for Illinois Agricultural Experiment Station Report No. 125

Cape, Coulterville, Bunkum, Homen, Kell, Marine, and Pierron

Series Dropped from Previously Correlated Legend for Illinois Agricultural Experiment Station Report No. 125

Weir and Wellston

Series Made Inactive

None

Cooperators' Name and Credits

For the front cover and half-title page:

United States Department of Agriculture

Natural Resources Conservation Service

In Cooperation with Illinois Agricultural Experiment Station

The 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 Perry County Soil and Water Conservation District. The cost was shared by the Perry County Board and the Illinois Department of Agriculture."

Prior Soil Survey Publications

The last soil survey of Perry County was completed in September 1983 and published by the United States Department of Agriculture, Soil Conservation Service, in cooperation with other federal and state agencies including the University of Illinois Agricultural Experiment Station in September 1988. (Also designated as Illinois Agricultural Experiment Station Report No.125).

Reference to the prior soil survey will be included in the literature citation of the manuscript. This update replaces the September 1988 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 was completed by NRCS field soil scientists and by soil scientists contracted by NRCS. The soil maps will be digitized by the Kansas Digitizing Center.

Conventional and Special Symbols Legend

No Special Features are shown on the digitized maps in this update.

NRCS-SOI-37a
 REVISED MAY 2001 **FEATURE AND SYMBOL LEGEND
 FOR SOIL SURVEY**

Soil Survey Area
Perry County

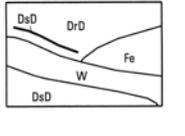
State **ILLINOIS**

U.S. DEPARTMENT OF
 AGRICULTURE

 NATURAL RESOURCES
 CONSERVATION SERVICE

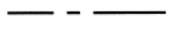
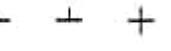
Date: **December 2005**

SOIL SURVEY FEATURES

SOIL DELINEATI ONS 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.	

Soil Mapunit Symbol Conversion Legend of Perry 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
3B	3B
3B2	3B2
4B	4B
4C2	4C2
5C3	5C3
5D	5D
5D3	5D3
7D3	7D3
8E	8F
8E3	8F3
8F	8F
8F3	8F3
8G	8G
12	12A
12A	12A
13A	13A
13B	13B
13B2	13B2
14B	14B
14C3	14C3
26	7026A
31A	31A
84	7084A
108	3108A
113	113A
113A	113A
122B2	7122B2
164A	164A
164B	164B
164B2	164B2
165	31A
214B	582B
214C3	582C3
338	7338A
382	3382A
426	1846A
426	3422A
515C3	515C3
517A	517A
517B	517B
536	536
581B2	581B2

Field Symbol	Publication Symbol
582B	582B
582C3	582C3
787	3382A
787	3787A
797D3	797D3
802B	802B
821G	821G
823B	823B
823C	823C
823D	823D
824B	824B
825C	825C
850D3	797D3
860D3	860D3
866	866
871B	871B
871D	871D
871G	871G
882A	882A
884B2	884B2
900E	908F
900E3	908F3
900G	908G
908F	908F
908F3	908F3
908G	908G
912A	912A
912B2	912B2
916	882A
929D3	929D3
991	991A
991A	991A
1108	1108A
1108A	1108A
1846A	1846A
3108A	3108A
3333A	3333A
3382A	3382A
3422A	3422A
3787A	3787A
5002	5002A
5002A	5002A
5912	5912A
5912A	5912A
7026A	7026A

Field Symbol	Publication Symbol
7084A	7084A
7122B2	7122B2
7338A	7338A
MW	MW
W	MW
W	W

Field Symbol	Publication Symbol

ALPHABETIC SOIL MAP LEGEND of Perry County, Illinois

Map Symbol	Soil Name
7D3	Atlas silty clay loam, 10 to 18 percent slopes, severely eroded
14B	Ava silt loam, 2 to 5 percent slopes
14C3	Ava silty clay loam, 5 to 10 percent slopes, severely eroded
3787A	Banlic silt loam, 0 to 2 percent slopes, frequently flooded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
5D	Blair silt loam, 10 to 18 percent slopes
5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded
5D3	Blair silty clay loam, 10 to 18 percent slopes, severely eroded
13A	Bluford silt loam, 0 to 2 percent slopes
13B	Bluford silt loam, 2 to 5 percent slopes
13B2	Bluford silt loam, 2 to 5 percent slopes, eroded
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded
884B2	Bunkum-Coulterville silt loams, 2 to 5 percent slopes, eroded
515C3	Bunkum silty clay loam, 5 to 10 percent slopes, severely eroded
3422A	Cape silty clay, 0 to 2 percent slopes, frequently flooded
991A	Cisne-Huey silt loams, 0 to 2 percent slopes
2A	Cisne silt loam, 0 to 2 percent slopes
5002A	Cisne silt loam, mine sinks, 0 to 2 percent slopes
7122B2	Colp silt loam, 2 to 5 percent slopes, eroded, rarely flooded
536	Dumps, mine
866	Dumps, slurry
929D3	Hickory-Ava silty clay loams, 10 to 18 percent slopes, severely eroded
8F3	Hickory clay loam, 18 to 35 percent slopes, severely eroded
797D3	Hickory-Homen silty clay loams, 10 to 18 percent slopes, severely eroded
908F	Hickory-Kell silt loams, 18 to 35 percent slopes
908F3	Hickory-Kell silty clay loams, 18 to 35 percent slopes, severely eroded
8F	Hickory silt loam, 18 to 35 percent slopes
8G	Hickory silt loam, 35 to 70 percent slopes
860D3	Homen-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
582B	Homen silt loam, 2 to 5 percent slopes
582C3	Homen silty clay loam, 5 to 10 percent slopes, severely eroded
912A	Hoyleton-Darmstadt silt loams, 0 to 2 percent slopes
912B2	Hoyleton-Darmstadt silt loams, 2 to 5 percent slopes, eroded
5912A	Hoyleton-Darmstadt silt loams, mine sinks, 0 to 2 percent slopes
3A	Hoyleton silt loam, 0 to 2 percent slopes
3B	Hoyleton silt loam, 2 to 5 percent slopes
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
7338A	Hurst silt loam, 0 to 2 percent slopes, rarely flooded
1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded
908G	Kell-Hickory silt loams, 35 to 70 percent slopes
871B	Lenzburg gravelly silty clay loam, 2 to 7 percent slopes, stony
871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes, stony
871G	Lenzburg gravelly silty clay loam, 20 to 60 percent slopes, stony
825C	Lenzburg silty clay loam, acid substratum, 2 to 12 percent slopes
517A	Marine silt loam, 0 to 2 percent slopes
517B	Marine silt loam, 2 to 5 percent slopes
MW	Miscellaneous water
821G	Morristown cobbly silty clay loam, 20 to 60 percent slopes, very stony
882A	Oconee-Darmstadt-Coulterville silt loams, 0 to 2 percent slopes
113A	Oconee silt loam, 0 to 2 percent slopes
7084A	Okaw silt loam, 0 to 2 percent slopes, rarely flooded
802B	Orthents, loamy, undulating
31A	Pierron silt loam, 0 to 2 percent slopes
4B	Richview silt loam, 2 to 5 percent slopes
4C2	Richview silt loam, 5 to 10 percent slopes, eroded
823B	Schuline silt loam, 1 to 5 percent slopes
823C	Schuline silt loam, 5 to 10 percent slopes
823D	Schuline silt loam, 10 to 15 percent slopes

ALPHABETIC SOIL MAP LEGEND of Perry County, Illinois - continued

Map Symbol	Soil Name
164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes
164B2	Stoy silt loam, 2 to 5 percent slopes, eroded
824B	Swanwick silt loam, 1 to 5 percent slopes
581B2	Tamalco silt loam, 2 to 5 percent slopes, eroded
7026A	Wagner silt loam, 0 to 2 percent slopes, rarely flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
W	Water
12A	Wynoose silt loam, 0 to 2 percent slopes

NUMERICAL SOIL MAP LEGEND of Perry County, Illinois

Map Symbol	Soil Name
2A	Cisne silt loam, 0 to 2 percent slopes
3A	Hoyleton silt loam, 0 to 2 percent slopes
3B	Hoyleton silt loam, 2 to 5 percent slopes
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
4B	Richview silt loam, 2 to 5 percent slopes
4C2	Richview silt loam, 5 to 10 percent slopes, eroded
5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded
5D	Blair silt loam, 10 to 18 percent slopes
5D3	Blair silty clay loam, 10 to 18 percent slopes, severely eroded
7D3	Atlas silty clay loam, 10 to 18 percent slopes, severely eroded
8F	Hickory silt loam, 18 to 35 percent slopes
8F3	Hickory clay loam, 18 to 35 percent slopes, severely eroded
8G	Hickory silt loam, 35 to 70 percent slopes
12A	Wynoose silt loam, 0 to 2 percent slopes
13A	Bluford silt loam, 0 to 2 percent slopes
13B	Bluford silt loam, 2 to 5 percent slopes
13B2	Bluford silt loam, 2 to 5 percent slopes, eroded
14B	Ava silt loam, 2 to 5 percent slopes
14C3	Ava silty clay loam, 5 to 10 percent slopes, severely eroded
31A	Pierron silt loam, 0 to 2 percent slopes
113A	Oconee silt loam, 0 to 2 percent slopes
164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes
164B2	Stoy silt loam, 2 to 5 percent slopes, eroded
515C3	Bunkum silty clay loam, 5 to 10 percent slopes, severely eroded
517A	Marine silt loam, 0 to 2 percent slopes
517B	Marine silt loam, 2 to 5 percent slopes
536	Dumps, mine
581B2	Tamalco silt loam, 2 to 5 percent slopes, eroded
582B	Homen silt loam, 2 to 5 percent slopes
582C3	Homen silty clay loam, 5 to 10 percent slopes, severely eroded
797D3	Hickory-Homen silty clay loams, 10 to 18 percent slopes, severely eroded
802B	Orthents, loamy, undulating
821G	Morristown cobbly silty clay loam, 20 to 60 percent slopes, very stony
823B	Schuline silt loam, 1 to 5 percent slopes
823C	Schuline silt loam, 5 to 10 percent slopes
823D	Schuline silt loam, 10 to 15 percent slopes
824B	Swanwick silt loam, 1 to 5 percent slopes
825C	Lenzburg silty clay loam, acid substratum, 2 to 12 percent slopes
860D3	Homen-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
866	Dumps, slurry
871B	Lenzburg gravelly silty clay loam, 2 to 7 percent slopes, stony
871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes, stony
871G	Lenzburg gravelly silty clay loam, 20 to 60 percent slopes, stony
882A	Oconee-Darmstadt-Coulterville silt loams, 0 to 2 percent slopes
884B2	Bunkum-Coulterville silt loams, 2 to 5 percent slopes, eroded
908F	Hickory-Kell silt loams, 18 to 35 percent slopes
908F3	Hickory-Kell silty clay loams, 18 to 35 percent slopes, severely eroded
908G	Kell-Hickory silt loams, 35 to 70 percent slopes
912A	Hoyleton-Darmstadt silt loams, 0 to 2 percent slopes
912B2	Hoyleton-Darmstadt silt loams, 2 to 5 percent slopes, eroded
929D3	Hickory-Ava silty clay loams, 10 to 18 percent slopes, severely eroded
991A	Cisne-Huey silt loams, 0 to 2 percent slopes
1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded
1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
3422A	Cape silty clay, 0 to 2 percent slopes, frequently flooded
3787A	Banlic silt loam, 0 to 2 percent slopes, frequently flooded

NUMERICAL SOIL MAP LEGEND of Perry County, Illinois – continued

Map Symbol	Soil Name
5002A	Cisne silt loam, mine sinks, 0 to 2 percent slopes
5912A	Hoyleton-Darmstadt silt loams, mine sinks, 0 to 2 percent slopes
7026A	Wagner silt loam, 0 to 2 percent slopes, rarely flooded
7084A	Okaw silt loam, 0 to 2 percent slopes, rarely flooded
7122B2	Colp silt loam, 2 to 5 percent slopes, eroded, rarely flooded
7338A	Hurst silt loam, 0 to 2 percent slopes, rarely flooded
MW	Miscellaneous water
W	Water

Notes To Accompany The Classification And Correlation Of Perry County, Illinois

1. Dean Spindler, Illinois Department of Natural Resources Office of Mines and Minerals assisted with updating the strip mine areas.
2. In the NE ¼ of section 5, T4S, R2W, the polygon mapped as Banlic in the published soil survey was correlated to Belknap to join with Washington County.

Mapunit History Notes For Perry County, Illinois

Map Symbol	Map Unit Name	Mapunit History Notes
3A	Hoyleton silt loam, 0 to 2 percent slopes	These soils have slightly higher pH in the lower part of the solum than is defined for the Hoyleton series.
3B	Hoyleton silt loam, 2 to 5 percent slopes	These soils have slightly higher pH in the lower part of the solum than is defined for the Hoyleton series.
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded	These soils have slightly higher pH in the lower part of the solum than is defined for the Hoyleton series.
4B	Richview silt loam, 2 to 5 percent slopes	Richview soils have a slightly higher pH in the upper part of the solum than is defined for the Richview series.
4C2	Richview silt loam, 5 to 10 percent slopes, eroded	Richview soils have a slightly higher pH in the upper part of the solum than is defined for the Richview series.
14B	Ava silt loam, 2 to 5 percent slopes	With this update the Ava soils in Perry County are no longer considered to be taxadjuncts because over most of the MLRA the Ava soils have a well defined frapipan.
14C3	Ava silty clay loam, 5 to 10 percent slopes, severely eroded	With this update the Ava soils in Perry County are no longer considered to be taxadjuncts because over most of the MLRA the Ava soils have a well defined frapipan.
31A	Pierron silt loam, 0 to 2 percent slopes	Weir soils were correlated to Pierron soils with this update because they dominantly have an abrupt textural change.
113A	Oconee silt loam, 0 to 2 percent slopes	Oconee soils have a slightly higher pH in the lower part of the solum than is defined for the Oconee series.
164A	Stoy silt loam, 0 to 2 percent slopes	Stoy soils in map unit 164A have mottles slightly higher in the solum than is defined for the Stoy series
515C3	Bunkum silty clay loam, 5 to 10 percent slopes, severely eroded	Bunkum soils were added to this legend to join with Randolph County.
517A	Marine silt loam, 0 to 2 percent slopes	Marine soils were added to this legend to join Randolph County.
517B	Marine silt loam, 2 to 5 percent slopes	Marine soils were added to this legend to join Randolph County.

Mapunit History Notes for Perry County - continued

Map Symbol	Map Unit Name	Mapunit History Notes
582B	Homen silt loam, 2 to 5 percent slopes	Hosmer soils were taxadjuncts in the 1984 correlation because they had fragic properties and not fragipans. Hosmer soils are correlated to Homen soils with this update because with the fragic properties they fit the Homen series closer than the Hosmer series. A MLRA study of the Homen Series is planned as a future project to assess the range of characteristics of these soils and to possibly reclassify them as Fragic Oxyaquic Hapludalfs.
882A	Oconee-Darmstadt-Coulterville silt loams, 0 to 2 percent slopes	<p>These soils have a slightly higher pH in the lower part of the solum than is defined for the Oconee series (1984 Correlation).</p> <p>Coulterville soils are added to the legend as a component of the Oconee-Darmstadt-Coulterville complex. Transect data within the MLRA supports Coulterville as a named component in both complexes. This mapping unit was added to the legend to join with Washington County.</p>
884B2	Bunkum-Coulterville silt loams, 2 to 5 percent slopes, eroded	Coulterville soils are added to the legend as a component of the Bunkum-Coulterville complex. Transect data within the MLRA supports Coulterville as a named component in this complex. This mapping unit was added to the legend to join with Randolph and Washington counties.
908F	Hickory-Kell silt loams, 18 to 35 percent slopes	The moderately deep Kell soils are added to the legend as a component in complex with Hickory soils. They replace the deep and very deep Wellston soils that had previously been mapped in complex with Hickory soils.
908F3	Hickory-Kell silty clay loams, 18 to 35 percent slopes, severely eroded	The moderately deep Kell soils are added to the legend as a component in complex with Hickory soils. They replace the deep and very deep Wellston soils that had previously been mapped in complex with Hickory soils.
908G	Kell-Hickory silt loams, 35 to 70 percent slopes	The moderately deep Kell soils are added to the legend as a component in complex with Hickory soils. They replace the deep and very deep Wellston soils that had previously been mapped in complex with Hickory soils.
912B2	Hoyleton-Darmstadt silt loams, 2 to 5 percent slopes, eroded	The Darmstadt soils in map unit 912B2 average slightly more than 35 percent clay in the control section. The difference is not enough to name these soils as taxadjuncts.
991A	Cisne-Huey silt loams, 0 to 2 percent slopes	These soils average slightly more clay in the control section than defined for the Huey series.
1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded	These soils contain slightly more clay in the lower part of the control section than defined for the Bonnie series, but the average clay content is less than 27 percent.
1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded	Cape soils are mapped as an undifferentiated unit with Karnak soils in undrained areas that were previously mapped as Karnak soils. The undifferentiated unit is delineated based on photo interpretation and field verification. The typifying pedon for Karnak previously used in Perry County was actually Cape because the control section was too acid.

Mapunit History Notes for Perry County - continued

Map Symbol	Map Unit Name	Mapunit History Notes
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded	These soils contain slightly more clay in the lower part of the control section than defined for the Bonnie series, but the average clay content is less than 27 percent.
3422A	Cape silty clay, 0 to 2 percent slopes, frequently flooded	Cape soils were used to replace the Karnak soils in drained areas that are frequently flooded.
3787A	Banlic silt loam, 0 to 2 percent slopes, frequently flooded	An MLRA field study needs to be conducted in the future to evaluate the Banlic series. The OSD is being moved to Wayne County to better fit the "Fragic Epiaquepts" classification. The Banlic Soils in Perry Co. classify as "Fragiaquic Dystrudepts", thus are considered taxadjuncts. (1984 Correlation Notes) These soils are more acid in the upper part of the control section than defined for the Banlic series. In 1984 Banlic soils classified as coarse-silty, mixed, acid, mesic Aeric Haplaquepts. These soils are more acid in the upper part of the control section than defined for the Banlic series. They classified as coarse-silty, mixed, acid, mesic Aeric Haplaquepts. These soils were not named as taxadjuncts because they were so close to the defined range of the Banlic series.
5912A	Hoyleton-Darmstadt silt loams, mine sinks, 0 to 2 percent slopes	These soils have slightly higher pH in the lower part of the solum than is defined for the Hoyleton series.
7122B2	Colp silt loam, 2 to 5 percent slopes, eroded, rarely flooded	The pH in the lower part of the solum is on the high end of the range and depth to carbonates is on the shallow end as defined for the Colp series.
7338A	Hurst silt loam, 0 to 2 percent slopes, rarely flooded	The Huey soils are on the low end of drainage and have a slightly higher E/B clay Perry County, Illinois 24.

Perry 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).
Banlic	The typical pedon is from Perry County, Illinois and is a taxadjunct; it classifies as Coarse-silty, mixed, active, mesic Fragiaquic Dystrudepts. The OSD type location is being moved to Wayne County, IL.
Belknap	The typical pedon is from Wabash County, Illinois. (OSD type location).
Blair	The typical pedon is from Perry County, Illinois. (OSD type location).
Bluford	The typical pedon is from Franklin County, Illinois. (OSD revision has been submitted to move OSD type location to Franklin Co. and to make episaturation the series concept).
Bonnie	The typical pedon is from Franklin County, Illinois.
Bunkum	The typical pedon is from St. Clair County, Illinois (OSD type location).

Perry County Correlation Notes by Soil Series - continued

SERIES NAME	SERIES NOTES
Cape	The typical pedon is from Saline County, Illinois. (OSD type location). Cape soils were used to replace the Karnak soils in drained areas that are frequently flooded. Cape soils are mapped as an undifferentiated unit with Karnak soils in undrained areas that were previously mapped as Karnak soils. The undifferentiated unit is delineated based on photo interpretation and field verification. The typifying pedon for Karnak previously used in Perry County was actually Cape because the control section was too acid.
Kell	The typical pedon is from Jefferson County, Illinois. (OSD type location).
Cisne	The typical pedon is from Jasper County, Illinois. (OSD type location).
Colp	The typical pedon is from Franklin County, Illinois.
Coulterville	The typical pedon is from Washington County, Illinois. Coulterville soils are added to the legend as a component of the Oconee-Darmstadt-Coulterville complex and the Bunkum-Coulterville complex. Transect data within the MLRA supports Coulterville as a named component in both complexes. The Oconee-Darmstadt-Coulterville complex was added to the legend to join Washington County. The Bunkum-Coulterville complex was added to the legend to join with Randolph and Washington County.
Darmstadt	The typical pedon is from St. Clair County, Illinois. (OSD type location).
Hickory	The typical pedon is from Jefferson County, Illinois.
Homen	The typical pedon is from Randolph County, Illinois. (OSD type location). Hosmer soils were taxadjuncts in the 1984 correlation because they had fragic properties and not fragipans. Hosmer soils are correlated to Homen soils with this update because of its fragic properties. A MLRA field study of the Homen Series is planned as an upcoming project to assess the range of characteristics of these soils and to possibly reclassify them as Fragic Oxyaquic Hapludalfs.
Hoyleton	The typical pedon is from Shelby County, Illinois. (OSD type location).
Huey	The typical pedon is from Effingham County, Illinois. (OSD type location).
Hurst	The typical pedon is from Williamson County, Illinois. (OSD type location).
Karnak	The typical pedon is from Massac County, Illinois. (OSD type location).
Lenzburg	The typical pedon is from Randolph County, Illinois. (OSD type location).
Marine	The typical pedon is from Madison County, Illinois. (OSD type location).
Morristown	The typical pedon is from Randolph County, Illinois.
Oconee	The typical pedon is from St. Clair County, Illinois.
Okaw	The typical pedon is from Jackson County, Illinois. (OSD type location).
Pierron	The typical pedon is from St. Clair County, Illinois.
Richview	The typical pedon is from Franklin County, Illinois.
Schuline	The typical pedon is from Perry County, Illinois. (OSD type location).
Stoy	The typical pedon is from Gallatin County, Illinois. (OSD type location).
Swanwick	The typical pedon is from Randolph County, Illinois. (OSD type location).
Tamalco	The typical pedon is from Montgomery County, Illinois. (OSD type location).
Wagner	The typical pedon is from Greene County, Illinois. (OSD type location).
Wakeland	The typical pedon is from Madison County, Illinois.
Wynoose	The typical pedon is from Wayne County, Illinois. (OSD type location)

**Classification of the Soils of
Perry 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
*Banlic-----	Coarse-silty, mixed, active, mesic Fragiaquic Dystrudepts
Belknap-----	Coarse-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts
Blair-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Bluford-----	Fine, smectitic, mesic Aeric Fragic Epiaqualfs
Bonnie-----	Fine-silty, mixed, active, acid, mesic Typic Fluvaquents
Bunkum-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Cape-----	Fine, smectitic, acid, mesic Vertic Endoaquepts
Cisne-----	Fine, smectitic, mesic Mollic Albaqualfs
Colp-----	Fine, smectitic, mesic Aquertic Chromic Hapludalfs
Coulterville-----	Fine-silty, mixed, superactive, mesic Aeric Epiaqualfs
Darmstadt-----	Fine-silty, mixed, superactive, mesic Aquic Natrudalfs
Hickory-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Homen-----	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Hoyleton-----	Fine, smectitic, mesic Aquollic Hapludalfs
Huey-----	Fine-silty, mixed, superactive, mesic Typic Natraqualfs
Hurst-----	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Karnak-----	Fine, smectitic, nonacid, mesic Vertic Endoaquepts
Kell-----	Fine-loamy, mixed, active, mesic Ultic Hapludalfs
Lenzburg-----	Fine-loamy, mixed, active, calcareous, mesic Haplic Udarents
Marine-----	Fine, smectitic, mesic Aeric Albaqualfs
Morristown-----	Loamy-skeletal, mixed, active, calcareous, mesic Typic Udorthents
Oconee-----	Fine, smectitic, mesic Udollic Endoaqualfs
Okaw-----	Fine, smectitic, mesic Chromic Vertic Albaqualfs
Orthents-----	Fine-loamy, mixed, active, nonacid, mesic Typic Udorthents
Pierron-----	Fine, smectitic, mesic Typic Albaqualfs
Richview-----	Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs
Schuline-----	Fine-loamy, mixed, superactive, calcareous, mesic Alfic Udarents
Stoy-----	Fine-silty, mixed, superactive, mesic Fragiaquic Hapludalfs
Swanwick-----	Fine-silty, mixed, active, nonacid, mesic Alfic Udarents
Tamalco-----	Fine, smectitic, mesic Typic Natrudalfs
Wagner-----	Fine, smectitic, mesic Vertic Albaqualfs
Wakeland-----	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents
Wynoose-----	Fine, smectitic, mesic Typic Albaqualfs

Certification Statement

The MLRA Region 11 Team Leader certifies that:

- a. The fieldwork activities were completed in December 2004.
- b. Perry County is joined by Washington County to the north, Jefferson and Franklin Counties to the east, Jackson County to the south and Randolph County to the west.

Jackson County - Update in progress - exact join when the updates are complete.

Jefferson County - Update in progress - exact join when the updates are complete.

Washington County - Update in progress - exact join when the updates are complete.

Franklin County – SSURGO certification in progress - exact join once digital maps are checked.

Randolph County - SSURGO certification in progress - exact join once digital maps are checked.

- 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. Not all typical pedons are located in Perry County, but they are representative of the taxonomic units in MLRA 113 & 114B.
- e. All typical pedons are classified according to the Keys To Soil Taxonomy, Ninth Edition, 2003.
- g. The digital soil maps will be reviewed for accuracy and consistency prior to certification.

Approval Signatures and Date:

Travis Neely
Team Leader, MLRA Region 11
Indianapolis, Indiana

Date

William J. Gradle
State Conservationist
Champaign, Illinois

Date