

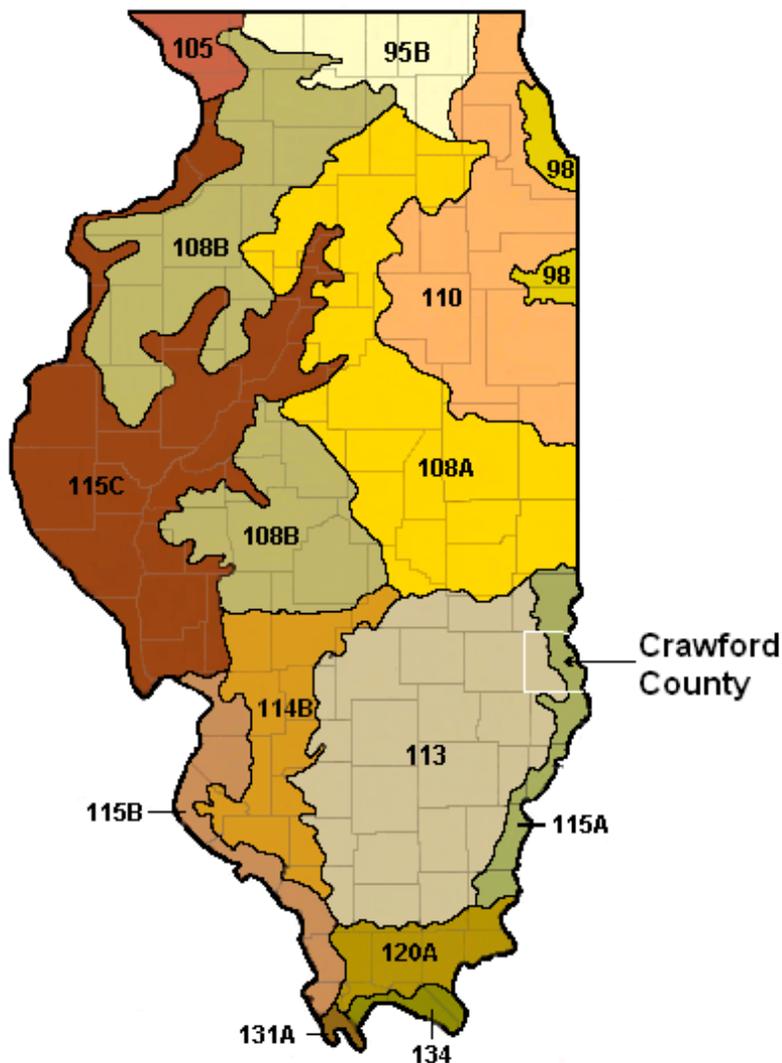
United States  
Department of  
Agriculture

Natural Resources  
Conservation Service

East Central Glaciated  
Regional MLRA  
Soil Survey Office  
Indianapolis, IN

# Classification and Correlation of Soils in Crawford County, Illinois

## A Subset of MLRA 113 and 115A



LEGEND	
95B	- Southern Wisconsin and Northern Illinois Drift Plain
98	- Southern Michigan and Northern Indiana Drift Plain
105	- Northern Mississippi Valley Loess Hills
108A and B	- Illinois and Iowa Deep Loess and Drift
110	- Northern Illinois and Indiana Heavy Till Plain
113	- Central Claypan Area
114B	- Southern Illinois and Indiana Thin Loess and Till Plain
115A, B, and C	- Central Mississippi Valley Wooded Slopes
120A	- Kentucky and Indiana Sandstone and Shale Hills and Valleys
131A	- Southern Mississippi Valley Alluvium
134	- Southern Mississippi Valley Silty Uplands

April 2004

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

**CLASSIFICATION AND CORRELATION  
OF THE SOILS OF  
CRAWFORD COUNTY, ILLINOIS**

**A SUBSET OF MLRA 113 and MLRA 115A**

**April 2004**

This correlation amendment was prepared by Sam Werner, MLRA Soil Scientist, Charleston, IL, Christopher C. Cochran, MLRA Project Leader, Charleston, IL, John C. Doll, Soil Scientist, Champaign, IL, and Asghar A. Chowdhery, Soil Data Quality Specialist (SDQS) MLRA Region 11 team, Indianapolis, IN. It was prepared as part of the update of the Soil Survey of Crawford County, a subset of MLRA's 113 and 115A. It is based on transect data, pedon descriptions, laboratory data, field soil maps, join statements, and descriptive legend. Sources used in the literature review include "Classification and Correlation of the Soils of Crawford County, Illinois" –August 1991, and the published "Soil Survey of Crawford County, Illinois" - 1996.

**HEADNOTE FOR DETAILED SOIL SURVEY LEGEND**

This update of Crawford County, Illinois is an update subset of the Soil Survey of Major Land Resource Areas (MLRA's) 113 and 115A. Map unit names, the map unit symbols, and special and conventional symbols are consistent between subsets that are being updated. Map unit 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 indicate 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 unit symbols without a following capital letter are for miscellaneous units.

Correlation of the Soils  
Crawford County, Illinois

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 113A	Hoyleton silt loam, 0 to 2 percent slopes OCONEE 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	3B	Hoyleton silt loam, 2 to 5 percent slopes
6B2	Fishhook silt loam, 2 to 5 percent slopes, eroded	6B2	Fishhook silt loam, 2 to 5 percent slopes, eroded
7C2	Atlas silt loam, 5 to 10 percent slopes, eroded	7C2	Atlas silt loam, 5 to 10 percent slopes, eroded
7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded	7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded
7D2	Atlas silt loam, 10 to 18 percent slopes, eroded	7D2	Atlas silt loam, 10 to 18 percent slopes, eroded
8F 8F	HICKORY LOAM, 20 TO 50 PERCENT SLOPES Hickory silt loam, 18 to 35 percent slopes	8F	Hickory silt loam, 18 to 35 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
14B 14B	AVA SILT LOAM, 1 TO 5 PERCENT SLOPES Ava silt loam, 2 to 5 percent slopes	14B	Ava silt loam, 2 to 5 percent slopes
14C2	Ava silt loam, 5 to 10 percent slopes, eroded	14C2	Ava silt loam, 5 to 10 percent slopes, eroded
19D3 19D3	SYLVAN SILTY CLAY LOAM, 10 TO 15 PERCENT SLOPES, SEVERELY ERODED Sylvan silty clay loam, 10 to 18 percent slopes, severely eroded	19D3	Sylvan silty clay loam, 10 to 18 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
50 50A	VIRDEN SILTY CLAY LOAM Virden silty clay loam, 0 to 2 percent slopes	50A	Virden silty clay loam, 0 to 2 percent slopes
79B 308B	Menfro silt loam, 2 to 5 percent slopes ALFORD SILT LOAM, 1 TO 5 PERCENT SLOPES	79B	Menfro silt loam, 2 to 5 percent slopes
79C2 308C2	Menfro silt loam, 5 to 10 percent slopes, eroded Alford silt loam, 5 to 10 percent slopes, eroded	79C2	Menfro silt loam, 5 to 10 percent slopes, eroded
79D2 308D2	Menfro silt loam, 10 to 18 percent slopes, eroded ALFORD SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED	79D2	Menfro silt loam, 10 to 18 percent slopes, eroded
308E	ALFORD SILT LOAM, 15 TO 30 PERCENT SLOPES		
79F 308E	Menfro silt loam, 18 to 35 percent slopes ALFORD SILT LOAM, 15 TO 30 PERCENT SLOPES	79F	Menfro silt loam, 18 to 35 percent slopes
112 112A	COWDEN SILT LOAM Cowden silt loam, 0 to 2 percent slopes	112A	Cowden silt loam, 0 to 2 percent slopes
119C2	Elco silt loam, 5 to 10 percent slopes, eroded	119C2	Elco silt loam, 5 to 10 percent slopes, eroded
119D 119D2	Elco silt loam, 10 to 18 percent slopes ELCO SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED	119D	Elco silt loam, 10 to 18 percent slopes

Correlation of the Soils (Continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
131A	Alvin fine sandy loam, 0 to 2 percent slopes	131A	Alvin fine sandy loam, 0 to 2 percent slopes
131B	Alvin fine sandy loam, 2 to 5 percent slopes	131B	Alvin fine sandy loam, 2 to 5 percent slopes
131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded	131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded
131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded	131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded
131E 131F	ALVIN LOAMY FINE SAND, 18 TO 30 PERCENT SLOPES Alvin fine sandy loam, 18 to 35 percent slopes	131F	Alvin fine sandy loam, 18 to 35 percent slopes
138 138A	SHILOH SILTY CLAY LOAM Shiloh silty clay loam, 0 to 2 percent slopes	138A	Shiloh silty clay loam, 0 to 2 percent slopes
142 142A	PATTON SILTY CLAY LOAM Patton silty clay loam, 0 to 2 percent slopes	142A	Patton silty clay loam, 0 to 2 percent slopes
155A	Stockland gravelly sandy loam, 0 to 2 percent slopes	155A	Stockland gravelly sandy loam, 0 to 2 percent slopes
155B	Stockland gravelly sandy loam, 2 to 5 percent slopes	155B	Stockland gravelly sandy loam, 2 to 5 percent slopes
155C	Stockland gravelly sandy loam, 5 to 10 percent slopes	155C	Stockland gravelly sandy loam, 5 to 10 percent slopes
164A	Stoy 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	164B	Stoy silt loam, 2 to 5 percent slopes
178 178A	RUARK FINE SANDY LOAM Ruark fine sandy loam, 0 to 2 percent slopes	178A	Ruark fine sandy loam, 0 to 2 percent slopes
184A	Roby fine sandy loam, 0 to 2 percent slopes	184A	Roby fine sandy loam, 0 to 2 percent slopes
214B 214B	Hosmer silt loam, 2 to 5 percent slopes HOSMER SILT LOAM, 1 TO 5 PERCENT SLOPES	214B	Hosmer silt loam, 2 to 5 percent slopes
214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded	214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded
218 218A	NEWBERRY SILT LOAM Newberry silt loam, 0 to 2 percent slopes	218A	Newberry silt loam, 0 to 2 percent slopes
173B 286A	MCGARY SILT LOAM, 2 TO 5 PERCENT SLOPES Carmi sandy loam, 0 to 2 percent slopes	286A	Carmi sandy loam, 0 to 2 percent slopes
286B	Carmi sandy loam, 2 to 5 percent slopes	286B	Carmi sandy loam, 2 to 5 percent slopes
173B 307B2 453B2	MCGARY SILT LOAM, 2 TO 5 PERCENT SLOPES Iona silt loam, 2 to 5 percent slopes, eroded MUREN SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED	307B2	Iona silt loam, 2 to 5 percent slopes, eroded
134A 434A	CAMDEN SILT LOAM, 0 TO 2 PERCENT SLOPES Ridgway silt loam, 0 to 2 percent slopes	434A	Ridgway silt loam, 0 to 2 percent slopes
134B 434B	CAMDEN SILT LOAM, 2 TO 5 PERCENT SLOPES Ridgway silt loam, 2 to 5 percent slopes	434B	Ridgway silt loam, 2 to 5 percent slopes
134C2 434C2	CAMDEN SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED Ridgway silt loam, 5 to 10 percent slopes, eroded	434C2	Ridgway silt loam, 5 to 10 percent slopes, eroded
173B 453A 454A	MCGARY SILT LOAM, 2 TO 5 PERCENT SLOPES Muren silt loam, 0 to 2 percent slopes Iva silt loam, 0 to 2 percent slopes	453A	Muren silt loam, 0 to 2 percent slopes

Correlation of the Soils (Continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
13B2	BLUFORD SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED	613B2	Oskaloosa silt loam, 2 to 5 percent slopes, eroded
613B2	Oskaloosa silt loam, 2 to 5 percent slopes, eroded		
615C2	Vanmeter silty clay loam, 5 to 10 percent slopes, eroded	615C2	Vanmeter silty clay loam, 5 to 10 percent slopes, eroded
615E2	VANMETER SILTY CLAY LOAM, 12 TO 30 PERCENT SLOPES, ERODED	615F	Vanmeter silty clay loam, 18 to 35 percent slopes
615F	Vanmeter silty clay loam, 18 to 35 percent slopes		
803C	Orthents	803C	Orthents
300	WESTLAND SILTY CLAY LOAM	841A	Carmi-Westland complex, 0 to 2 percent slopes
841A	Carmi-Westland complex, 0 to 2 percent slopes		
865	Pits, gravel	865	Pits, gravel
8D2	HICKORY SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED	908D2	Hickory-Kell complex, 10 to 18 percent slopes, eroded
8E2	HICKORY SILT LOAM, 15 TO 20 PERCENT SLOPES, ERODED		
908D2	Hickory-Kell complex, 10 to 18 percent slopes, eroded		
8E2	HICKORY SILT LOAM, 15 TO 20 PERCENT SLOPES, ERODED	908F	Hickory-Kell complex, 18 to 35 percent slopes
8F	HICKORY LOAM, 20 TO 50 PERCENT SLOPES		
908F	Hickory-Kell complex, 18 to 35 percent slopes		
620A	DARMSTADT SILT LOAM, 0 TO 2 PERCENT SLOPES	912A	Hoyleton-Darmstadt silt loams, 0 to 2 percent slopes
912A	Hoyleton-Darmstadt silt loams, 0 to 2 percent slopes		
8D2	HICKORY SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED	946D2	Hickory-Atlas complex, 10 to 18 percent slopes, eroded
8E2	HICKORY SILT LOAM, 15 TO 20 PERCENT SLOPES, ERODED		
946D2	Hickory-Atlas complex, 10 to 18 percent slopes, eroded		
3070	BEAUCOUP SILTY CLAY LOAM, FREQUENTLY FLOODED	3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded
3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded		
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded	3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded
3404	TITUS SILTY CLAY LOAM, FREQUENTLY FLOODED		
3284	TICE SILTY CLAY LOAM, FREQUENTLY FLOODED	3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded		
3288	PETROLIA SILTY CLAY LOAM, FREQUENTLY FLOODED	3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded		
3331	HAYMOND SILT LOAM, FREQUENTLY FLOODED	3331A	Haymond silt loam, 0 to 2 percent slopes, frequently flooded
3331A	Haymond silt loam, 0 to 2 percent slopes, frequently flooded		
3333	WAKELAND SILT LOAM, FREQUENTLY FLOODED	3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded		
3334	BIRDS SILT LOAM, FREQUENTLY FLOODED	3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded		

Correlation of the Soils (Continued)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
3424 3424A	SHOALS SILT LOAM, FREQUENTLY FLOODED Shoals silt loam, 0 to 2 percent slopes, frequently flooded	3424A	Shoals silt loam, 0 to 2 percent slopes, frequently flooded
3597 3597A	ARMIESBURG SILTY CLAY LOAM, FREQUENTLY FLOODED Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded	3597A	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded
3665 3665A	STONELICK LOAM, FREQUENTLY FLOODED Stonelick loam, 0 to 2 percent slopes, frequently flooded	3665A	Stonelick loam, 0 to 2 percent slopes, frequently flooded
M-W	Miscellaneous water	M-W	Miscellaneous water
W	Water	W	Water

**Series established by this correlation:** Oskaloosa

**Series or components added to the previous correlated legend (August 1991):** Darwin, Iona, Kell, Menfro, Miscellaneous water, Orthents, Pierron, Ridgway,

**Series dropped from the previously correlated legend (August 1991):** Alford, Camden, Iva, McGary, Oconee, Titus, and Weir

**Series Made Inactive:** None

**Verification of exact cooperator names:** 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 cooperators to be listed on the inside of the front cover are the same as those on the front cover, and in addition state: "This soil survey update is part of the technical assistance provided to Crawford County Soil and Water Conservation District. Financial assistance was made available by the Crawford County Board and the Illinois Department of Agriculture."

The last soil survey of Crawford County was completed in 1991 and was published by the United States Department of Agriculture, Natural Resources Conservation Service in 1996. It is Illinois Agricultural Experiment Station Soil Report No. 154, "Soil Survey of Crawford County, Illinois". Reference to the prior soil survey will be included in the literature citation of the manuscript. This update replaces the 1996 soil survey and provides additional data, updated soil interpretations, and digital soil maps at a 1:12,000 scale on an orthophoto base.

**Join Statement:** Crawford County, which was published in 1996, joins one outdated and four modern soil surveys. These are Lawrence, Clark, Cumberland, Jasper, and Richland Counties in Illinois. Lawrence County to the south is an out of date publication and was published as U of I Ag Experiment Station, Soil Report 78, in 1956. Richland County to the southwest was published jointly with Edwards County in 1972. Jasper County to the west was published in 1992. Clark County to the north was published in 1979. Crawford County is bounded by the Wabash River to the east. An acceptable join exists with all adjoining counties. An exact join will be completed with these counties when they are updated to the MLRA legend.

**Disposition of field sheets:** The publication soil map materials used for Soil Report No. 154 were compiled using "Ortho-Mapper" software to match orthophoto quarter quads at a scale of 1:12,000. The quarter quads were vectorized and labeled in ArcInfo, and delivered to the Kansas Digitizing Center. The final SSURGO certified product will be available at the Soil Datamart, the NRCS state office, and will be provided to the Crawford County Board as part of the cost share cooperative agreement.

**Instructions for map compilation and map finishing:** The digital maps and supporting documentation will be delivered to the Kansas Digitizing Center. The Charleston MLRA team and GIS staff at the state office will complete a final check before SSURGO certification.

**Conventional and special symbols legend:** Only those symbols indicated on the attached NRCS-SOILS-37A will be shown on the legend and placed on the maps.

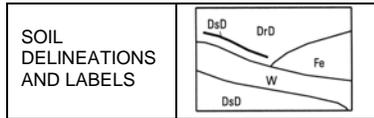
**FEATURE AND SYMBOL LEGEND  
 FOR SOIL SURVEY**

Soil Survey Area: Crawford County

State: Illinois

Date: April 2004

**SOIL SURVEY FEATURES**



**STANDARD LANDFORM AND  
 MISCELLANEOUS SURFACE  
 FEATURES**

Bedrock escarpment	YAYAYAYAYAYAYAY
Levee	
Short steep slope	.....
Gravel pit	⊗
Rock outcrop	▼
Sandy spot	⊗
Sodic spot	∅
Wet spot	⤵

**AD HOC FEATURES**

OBS	15	⊗
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**CULTURAL FEATURES  
 (Optional)**

National, state or providence	— — — — —
County or parish	— — — — —
Field sheet matchline and neatline	— — — — —
Public Land Survey System Section Boundary	— — — — —
Public Land Survey System Section Corner Tics.	┌ ┴ ┘

**TRANSPORTATION: NONE**

**ROAD EMBLEMS**

State	○
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**LOCATED OBJECTS: NONE**

**HYDROGRAPHIC FEATURES  
 (Optional): NONE**

**DEFINITIONS AND GUIDELINES  
FOR USE OF CONVENTIONAL AND SPECIAL SYMBOLS  
FOR CRAWFORD COUNTY, ILLINOIS**

<b>LABEL</b>	<b>NAME</b>	<b>DESCRIPTION OF FEATURE</b>
ESB	Escarpment, bedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion or faulting breaking the general continuity of more gently sloping land surfaces. Exposed material is hard or soft bedrock.
GPI	Gravel pit	An open excavation from which soil and the underlying material have been removed, and used without crushing, as a source of sand or gravel. Typically ½ to 2 ½ acres.
LVS	Levee	An embankment that confines or controls water, especially one built along the banks of a river to prevent overflow of lowlands.
OBS	Oil brine spot	An area where the surface layer has oil and/or brine accumulation in a quantity sufficient to inhibit vegetative growth. Typically ¼ to ½ acre.
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 ½ to 2 ½ acres.
SAN	Sandy spot	A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 1/2 to 3 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
SOD	Sodic spot	An area where the surface layer has a sodium adsorption ratio that is at least 10 more than the surrounding map unit which has a sodium adsorption ratio of 5 or less. Typically ¼ to 1 acre.
WET	Wet Spot	Somewhat poorly drained to very poorly drained area that is at least 2 drainage classes wetter than the named soils in the surrounding map unit. Typically ½ to 2 ½ acres.

Soil Mapunit Symbol Conversion Legend  
Crawford County, Illinois

Field symbols	Publication symbol
2	2A
2A	2A
3A	3A
3B	3B
6B2	6B2
7C2	7C2
7C3	7C3
7D2	7D2
8D2	908D2
8D2	946D2
8E2	908D2
8E2	908F
8E2	946D2
8F	8F
8F	908F
12	12A
12A	12A
13A	13A
13B2	613B2
14B	14B
14B	14B
14C2	14C2
19D3	19D3
19D3	19D3
31A	31A
50	50A
50A	50A
79B	79B
79C2	79C2
79D2	79D2
79F	79F
112	112A
112A	112A
113A	3A
119C2	119C2
119D	119D
119D2	119D
131A	131A
131B	131B

Field symbols	Publication symbol
131C2	131C2
131D2	131D2
131E	131F
131F	131F
134A	434A
134B	434B
134C2	434C2
138	138A
138A	138A
142	142A
142A	142A
155A	155A
155B	155B
155C	155C
164A	164A
164B	164B
165	31A
173B	286A
173B	307B2
173B	453A
178	178A
178A	178A
184A	184A
214B	214B
214C2	214C2
218	218A
218A	218A
286A	286A
286B	286B
300	841A
307B2	307B2
308B	79B
308C2	79C2
308D2	79D2
308E	79D2
308E	79F
434A	434A
434B	434B
434C2	434C2

Field symbols	Publication symbol
453A	453A
453B2	307B2
454A	453A
613B2	613B2
615C2	615C2
615E2	615F
615F	615F
620A	912A
803C	803C
841A	841A
865	865
908D2	908D2
908F	908F
912A	912A
946D2	946D2
3070	3070A
3070A	3070A
3071A	3071A
3284	3284A
3284A	3284A
3288	3288A
3288A	3288A
3331	3331A
3331A	3331A
3333	3333A
3333A	3333A
3334	3334A
3334A	3334A
3404	3071A
3424	3424A
3424A	3424A
3597	3597A
3597A	3597A
3665	3665A
3665A	3665A
M-W	M-W
W	W

## Soil Identification Legend According to Alphabetical Sequence

<b>Map symbol</b>	<b>Approved map unit name</b>
131A	Alvin fine sandy loam, 0 to 2 percent slopes
131B	Alvin fine sandy loam, 2 to 5 percent slopes
131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded
131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded
131F	Alvin fine sandy loam, 18 to 35 percent slopes
3597A	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded
7C2	Atlas silt loam, 5 to 10 percent slopes, eroded
7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded
7D2	Atlas silt loam, 10 to 18 percent slopes, eroded
14B	Ava silt loam, 2 to 5 percent slopes
14C2	Ava silt loam, 5 to 10 percent slopes, eroded
3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded
13A	Bluford silt loam, 0 to 2 percent slopes
286A	Carmi sandy loam, 0 to 2 percent slopes
286B	Carmi sandy loam, 2 to 5 percent slopes
841A	Carmi-Westland complex, 0 to 2 percent slopes
2A	Cisne silt loam, 0 to 2 percent slopes
112A	Cowden silt loam, 0 to 2 percent slopes
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded
119C2	Elco silt loam, 5 to 10 percent slopes, eroded
119D	Elco silt loam, 10 to 18 percent slopes
6B2	Fishhook silt loam, 2 to 5 percent slopes, eroded
3331A	Haymond silt loam, 0 to 2 percent slopes, frequently flooded
8F	Hickory silt loam, 18 to 35 percent slopes
946D2	Hickory-Atlas complex, 10 to 18 percent slopes, eroded
908D2	Hickory-Kell complex, 10 to 18 percent slopes, eroded
908F	Hickory-Kell complex, 18 to 35 percent slopes
214B	Hosmer silt loam, 2 to 5 percent slopes
214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded
3A	Hoyleton silt loam, 0 to 2 percent slopes
3B	Hoyleton silt loam, 2 to 5 percent slopes
912A	Hoyleton-Darmstadt silt loams, 0 to 2 percent slopes
307B2	Iona silt loam, 2 to 5 percent slopes, eroded
79B	Menfro silt loam, 2 to 5 percent slopes
79C2	Menfro silt loam, 5 to 10 percent slopes, eroded
79D2	Menfro silt loam, 10 to 18 percent slopes, eroded
79F	Menfro silt loam, 18 to 35 percent slopes
M-W	Miscellaneous water
453A	Muren silt loam, 0 to 2 percent slopes

<b><u>Map symbol</u></b>	<b><u>Approved map unit name</u></b>
218A	Newberry silt loam, 0 to 2 percent slopes
803C	Orthents
613B2	Oskaloosa silt loam, 2 to 5 percent slopes, eroded
142A	Patton silty clay loam, 0 to 2 percent slopes
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded
31A	Pierron silt loam, 0 to 2 percent slopes
865	Pits, gravel
434A	Ridgway silt loam, 0 to 2 percent slopes
434B	Ridgway silt loam, 2 to 5 percent slopes
434C2	Ridgway silt loam, 5 to 10 percent slopes, eroded
184A	Roby fine sandy loam, 0 to 2 percent slopes
178A	Ruark fine sandy loam, 0 to 2 percent slopes
138A	Shiloh silty clay loam, 0 to 2 percent slopes
3424A	Shoals silt loam, 0 to 2 percent slopes, frequently flooded
155A	Stockland gravelly sandy loam, 0 to 2 percent slopes
155B	Stockland gravelly sandy loam, 2 to 5 percent slopes
155C	Stockland gravelly sandy loam, 5 to 10 percent slopes
3665A	Stonelick loam, 0 to 2 percent slopes, frequently flooded
164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes
19D3	Sylvan silty clay loam, 10 to 18 percent slopes, severely eroded
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
615C2	Vanmeter silty clay loam, 5 to 10 percent slopes, eroded
615F	Vanmeter silty clay loam, 18 to 35 percent slopes
50A	Viriden silty clay loam, 0 to 2 percent slopes
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
W	Water
12A	Wynoose silt loam, 0 to 2 percent slopes

**CLASSIFICATION OF PEDONS  
 SAMPLED FOR LABORATORY ANALYSIS  
 CRAWFORD COUNTY, ILLINOIS  
 A SUBSET OF MLRA's 113 and 115A**

a. Laboratory Data from National Soil Survey Laboratory in Lincoln, Nebraska

<u>Sampled As</u>	<u>Lab Number</u>	<u>Publication Symbol</u>	<u>Approved Series</u>
Alvin	86IL-033-050	131C2	Alvin
Carmi Tax.	87IL-033-005	286B	Carmi
Iva	87IL-033-006	453A	Muren
Muren	86IL-033-042	307B2	Iona
Ruark	86IL-033-048	178A	Ruark
Stockland	87IL-033-004	155C	Stockland
Westland	86IL-033-046	841A	Westland
Alford	00IL-033-001-7	79B	Menfro

b. Laboratory Data from the University of Illinois Pedology Laboratory in Champaign, Illinois

<u>Sampled As</u>	<u>Lab Number</u>	<u>Publication Symbol</u>	<u>Approved Series</u>
Armiesburg	86IL-033-010	3597A	Armiesburg inclusion
Darmstadt	86IL-033-012	912A	Darmstadt
Genesee	85IL-033-001	3331A	Haymond inclusion
Genesee	86IL-033-011	3331A	Haymond inclusion

c. Engineering Test Data from Illinois Department of Transportation, Springfield, Illinois

<u>Sampled As</u>	<u>Lab Number</u>	<u>Publication Symbol</u>	<u>Approved Series</u>
Alvin	86IL-033-050	131C2	Alvin
Carmi Tax.	87IL-033-005	286B	Carmi
Iva	87IL-033-006	453A	Muren
Muren	86IL-033-042	307B2	Iona
Ruark	86IL-033-048	178A	Ruark
Stockland	87IL-033-004	155C	Stockland
Westland	86IL-033-046	841A	Westland

**Notes to accompany the  
Classification and Correlation  
of the Soils of  
Crawford County, Illinois  
Prepared by Sam E. Werner & Chris Cochran**

**ALFORD SERIES-** Dropped. Correlated to Menfro.

**ALVIN SERIES** – Previously correlated. Mapping unit includes areas of Bloomfield and Lamont soils which were correlated to Alvin in 8/91. TUD is the OSD.

**ARMIESBURG SERIES** - Previously correlated. Reaction in Bw horizons is slightly alkaline, which is slightly higher than series allows.

**ATLAS SERIES** - Previously correlated. Blair on the C2 slope was correlated to Atlas in the 8/91 correlation. Atlas has also been found in large enough amounts in Hickory D-slope units to warrant addition of map unit 946D2 -- Hickory-Atlas complex.

These soils in map unit 7C2 and 7C3 are taxadjuncts to the series because they do not have vertic properties. They classify as Fine, smectitic, mesic Aeric Endoaqualfs. The Atlas soils in map units 7D2 and 946D2 are taxadjuncts to the series because they do not have Vertic properties and are less gray in the upper part of the argillic horizon. They classify as Fine, smectitic, mesic, Aquic Hapludalfs.

**AVA SERIES** - Previously correlated for Soil Survey Report # 154. TUD is the OSD.

**BEAUCOUP SERIES** - Previously correlated for Soil Survey Report # 154. Bedrock is within 6 feet in some areas.

**BIRDS SERIES-** Previously correlated for Soil Survey Report # 154. TUD is the OSD.

**BLUFORD SERIES-** Previously correlated on A-slope and B-slope. A-slope unit is retained. B-slope unit is correlated to Oskaloosa. TUD is the OSD.

**CAMDEN SERIES-** Dropped. Correlated to Ridgway. Soil temperature too warm for Camden.

**CARMI SERIES-** Previously correlated for Soil Survey Report # 154. TUD is the OSD.

**CISNE SERIES-** Previously correlated. A proposal to change the classification from Vertic Albaqualfs to Mollic Albaqualfs will be presented to the MO HQ. TUD is the OSD.

**COWDEN SERIES-** Previously correlated for Soil Survey Report # 154. TUD is the OSD.

**DARMSTADT SERIES-** Previously correlated as consociation. Darmstadt will be correlated to a Hoyleton-Darmstadt complex. Transects and a special study with the Veris and EM-38 meters showed the map units are actually a complex of these soils.

**DARWIN SERIES-** Previously correlated as Titus. Darwin is mapped in surrounding counties and joins the Titus in Crawford. Lab data from adjacent Clark and Lawrence Counties indicate that the amount of clay in the PSC section is greater than 45 percent. TUD is the OSD.

**ELCO SERIES-** Previously correlated. Elco on D2 slope will be correlated to D-slope because the representative pedon is not eroded and nearly all of the acreage is in forest or pasture. The OSD is located on an accretion gley paleosol. In Crawford this soils are on *in situ* paleosols developed in Illinoisan till. A representative pedon from Crawford is used to represent the series.

**FISHHOOK SERIES-** Previously correlated for Soil Survey Report # 154.

**HAYMOND SERIES-** Previously correlated for Soil Survey Report # 154.

**HICKORY SERIES-** Previously correlated. Map unit 8D2 is correlated to 946D2 -- Hickory-Atlas complex (see note for Atlas Series). Hickory soils on D and F slopes in the southeast portion of the county are correlated to 908D2 and 908F -- Hickory-Kell complex. Transects and special studies with the EM meter and GPR indicate that Hickory map units in the SE part of the county are moderately deep to bedrock. TUD is the OSD.

**HOSMER SERIES-** Previously correlated. The reaction in the Bt horizons of the 214B and 214C2 units are moderately acid. The Hosmer series requires the Bt horizons to be strongly or very strongly acid. This difference is minor and RIC of the OSD could be expanded.

**HOYLETON SERIES-** Previously correlated for Soil Survey Report # 154. TUD is the OSD.

**IONA SERIES-** Previously correlated as 453B2 -- Muren taxadjunct. These soils are in upland areas and are moderately well drained. They are slightly outside the RIC for the Iona series because they have no carbonates in the series control section and more acid in the subsoil.

**IVA SERIES-** Dropped. Correlated to Muren. Drainage is better than allowed for Iva.

**KELL SERIES-** This series was added to the legend as a component in map units 908D2 and 908F -- Hickory-Kell complex. Transects and special studies with the EM meter and GPR indicate that Hickory map units in the SE part of the county are moderately deep to bedrock. TUD is the OSD.

**McGARY SERIES-** Dropped. Correlated to Carmi, Iona, and Muren, depending on location.

**MENFRO SERIES-** Previously correlated as Alford. Alford is Ultic Hapludalfs. These soils in Crawford County are Typic Hapludalfs.

**MISCELLANEOUS WATER-** These are areas of sewage lagoons and animal waste ponds.

**MUREN SERIES-** Areas previously mapped 453B2 are correlated to Iona (307B2). Areas previously mapped Iva (454A) and some areas previously mapped as McGary (173B) are correlated to Muren (453A).

**NEWBERRY SERIES-** Previously correlated for Soil Survey Report # 154. TUD is the OSD.

**OCONEE SERIES-** Dropped. Correlated to Hoyleton. These soils are generally less than 50 inches to pedisegment.

**ORTHENTS-** Used for abandoned mining operations where the original soil material has been modified. These areas can be loamy or sandy.

**OSKALOOSA-** New series established with this correlation. Map unit 613B2 -- Oskaloosa replaces map unit 13B2 -- Bluford. Oskaloosa series is a member of the Fine, smectitic, mesic, Fragiaquic Hapludalfs. Acreage for this series in Crawford County is 6800 acres. An additional 40,000 acres of Oskaloosa soils will be correlated in Clay, Clark, Edwards, Effingham, Fayette, Richland and Wayne. TUD is the OSD.

**PATTON SERIES-** Previously correlated for Soil Survey Report # 154. TUD is the OSD.

**PETROLIA SERIES-** Previously correlated for Soil Survey Report # 154.

**PIERRON -** Previously correlated as Weir (165). These are deep loess soils that occur in a narrow north-south band on uplands adjacent to the Wabash River valley. OSD is the TUD.

**PITS, GRAVEL-** Previously used spot symbol to identify these areas. Use this in active gravel mining operations.

**RIDGWAY SERIES-** Previously correlated as Camden. Camden is cool mesic and Ridgway is warm mesic. TUD is the OSD.

**ROBY SERIES-** Previously correlated for Soil Survey Report # 154.

**RUARK SERIES-** Previously correlated for Soil Survey Report # 154.

**SHILOH SERIES-** Previously correlated for Soil Survey Report # 154. TUD is the OSD.

**SHOALS SERIES-** Previously correlated for Soil Survey Report # 154.

**STOCKLAND SERIES-** Previously correlated. Reclassification of this series to Loamy-skeletal, mixed, superactive, mesic, Pachic Hapludolls was completed to recognize the thick mollic epipedon. Clay content will average between 12 and 18 percent clay in the PSC section. Individual horizons with up to 22 percent clay are allowed. TUD is the OSD.

**STONELICK SERIES-** Previously correlated for Soil Survey Report # 154.

**STOY SERIES-** Previously correlated for Soil Survey Report # 154.

**SYLVAN SERIES-** Previously correlated for Soil Survey Report # 154.

**TICE SERIES-** Previously correlated for Soil Survey Report # 154.

**TITUS SERIES-** Dropped. Correlated to Darwin.

**VANMETER SERIES-** Previously correlated. These soils are taxadjunct to the series because they have redox features higher in the profile than is typical for the Vanmeter series. They classify as Fine, illitic, mesic, Aquic Eutrudepts. .

**VIRDEN SERIES-** Previously correlated for Soil Survey Report # 154.

**WAKELAND SERIES-** Previously correlated for Soil Survey Report # 154.

**WATER-** Previously identified with a special symbol.

**WEIR SERIES-** Dropped. See Pierron.

**WESTLAND SERIES** - Previously correlated for Soil Survey Report # 154. These soils have mollic epipedons that are thicker than allowed for the series but still meet the classification of the Westland series.

**WYNOOSE SERIES-** Previously correlated for Soil Survey Report # 154. OSD for TUD.

## Classification of the Soils

(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
Alvin-----	Coarse-loamy, mixed, superactive, mesic Typic HapludalFs
Armiesburg--	Fine-silty, mixed, superactive, mesic Fluventic Hapludolls
*Atlas-----	Fine, smectitic, mesic Aeric Endoaqualfs
*Atlas-----	Fine, smectitic, mesic Aquic HapludalFs
Ava-----	Fine-silty, mixed, active, mesic Oxyaquic FragiudalFs
Beaucoup----	Fine-silty, mixed, superactive, mesic Fluvaquentic Endoaquolls
Birds-----	Fine-silty, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
Bluford-----	Fine, smectitic, mesic Aeric Fragic Endoaqualfs
Carmi-----	Coarse-loamy, mixed, superactive, mesic Pachic Hapludolls
Cisne-----	Fine, smectitic, mesic Mollic Albaqualfs
Cowden-----	Fine, smectitic, mesic Mollic Albaqualfs
Darmstadt---	Fine-silty, mixed, superactive, mesic Albic Natraqualfs
Darwin-----	Fine, smectitic, mesic Fluvaquentic Vertic Endoaquolls
Elco-----	Fine-silty, mixed, superactive, mesic Oxyaquic HapludalFs
Fishhook----	Fine-silty, mixed, superactive, mesic Aquic HapludalFs
Haymond-----	Coarse-silty, mixed, superactive, mesic Dystric Fluventic Eutrudepts
Hickory-----	Fine-loamy, mixed, active, mesic Typic HapludalFs
Hosmer-----	Fine-silty, mixed, active, mesic Oxyaquic FragiudalFs
Hoyleton----	Fine, smectitic, mesic Aquollic HapludalFs
Iona-----	Fine-silty, mixed, superactive, mesic Oxyaquic HapludalFs
Kell-----	Fine-loamy, mixed, active, mesic Ultic HapludalFs
Menfro-----	Fine-silty, mixed, superactive, mesic Typic HapludalFs
Muren-----	Fine-silty, mixed, superactive, mesic Aquic HapludalFs
Newberry----	Fine-silty, mixed, superactive, mesic Mollic Endoaqualfs
Orthents----	Mixed, mesic Udorthents
Oskaloosa---	Fine, smectitic, mesic Fragiaquic HapludalFs
Patton-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Petrolia----	Fine-silty, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
Pierron-----	Fine, smectitic, mesic Typic Albaqualfs
Ridgway-----	Fine-silty, mixed, superactive, mesic Typic HapludalFs
Roby-----	Coarse-loamy, mixed, superactive, mesic Aquic HapludalFs
Ruark-----	Fine-loamy, mixed, active, mesic Typic Endoaqualfs
Shiloh-----	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
Shoals-----	Fine-loamy, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
Stockland---	Loamy-skeletal, mixed, superactive, mesic Pachic Hapludolls
Stonelick---	Coarse-loamy, mixed, superactive, calcareous, mesic Typic Udifluvents
Stoy-----	Fine-silty, mixed, superactive, mesic Fragiaquic HapludalFs
Sylvan-----	Fine-silty, mixed, superactive, mesic Typic HapludalFs
Tice-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
*Vanmeter----	Fine, illitic, mesic Aquic Eutrudepts
Virden-----	Fine, smectitic, mesic Vertic Argiaquolls
Wakeland----	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents
Westland----	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls
Wynoose-----	Fine, smectitic, mesic Typic Albaqualfs

