

*Correlator*

**CLASSIFICATION AND CORRELATION  
OF  
THE SOILS OF**

**JASPER COUNTY  
ILLINOIS**  

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**OCTOBER 1986**  

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**LOCATION**



**U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
MIDWEST NATIONAL TECHNICAL CENTER  
LINCOLN, NEBRASKA**



UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service  
Midwest National Technical Center  
Lincoln, Nebraska 68508-3866

Classification and Correlation  
of the Soils of  
Jasper County, Illinois

The final correlation conference for Jasper County, Illinois, soil survey was held in the MNTC, Lincoln, Nebraska, during the week of July 7-9, 1986. Mark W. Bramstedt, survey leader, SCS; Earl E. Voss, state soil scientist, SCS; and Louie L. Buller, soil correlator, SCS; participated in this conference. The draft of the manuscript, soil correlation samples, laboratory data, field notes, soil maps, and manuscript tables were available at the conference. Mr. Buller also participated in the comprehensive field review the week of April 15-19, 1985.

Headnote for Detailed Soil Survey Legend:

Map symbols consist of numbers or a combination of numbers and letters. The initial numbers represent the kinds of soil or miscellaneous area. A capital letter following these numbers indicates the class of slope. Symbols without a slope letter are for nearly level soils or miscellaneous areas. A final number of 2 following the slope letter indicates the soil is moderately eroded and 3 that it is severely eroded.

SOIL CORRELATION OF  
JASPER COUNTY, ILLINOIS

Field symbols	Field map unit name	Publi- cation symbol	Approved map unit name
2, 287	Cisne silt loam	2	Cisne silt loam
3B, 3A, 912A	Hoyleton silt loam, 1 to 3 percent slopes	3B	Hoyleton silt loam, 1 to 3 percent slopes
3B2, 912B2	Hoyleton silt loam, 2 to 5 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
7C2, 5C2	Atlas silt loam 5 to 10 percent slopes, eroded	7C2	Atlas silt loam, 5 to 10 percent slopes, eroded
7C3, 5C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded	7C3	Atlas silty clay loam, 5 to 10 percent slopes, severely eroded
7D2, 5D2, 8D2, 605D2, 14D2, 119D2	Atlas silt loam, 10 to 15 percent slopes, eroded	7D2	Atlas silt loam, 10 to 15 percent slopes, eroded
7D3, 8D3, 5D3, 14D3, 929D3, 119D3, 605D3	Atlas silty clay loam, 10 to 15 percent slopes, severely eroded	7D3	Atlas silty clay loam, 10 to 15 percent slopes, severely eroded
8F, 8E	Hickory loam, 15 to 30 percent slopes	8F	Hickory loam, 15 to 30 percent slopes
8F2, 8E3, 8E2	Hickory loam, 15 to 30 percent slopes, eroded	8F2	Hickory loam, 15 to 30 percent slopes, eroded
8G	Hickory loam, 30 to 60 percent slopes	8G	Hickory loam, 30 to 60 percent slopes

## JASPER COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
12	Wynoose silt loam	12	Wynoose silt loam
13A, 13B	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
14B, 14B2	Ava silt loam, 1 to 5 percent slopes	14B	Ava silt loam, 1 to 5 percent slopes
14C2, 14C3, 119C2, 119C3	Ava silt loam, 5 to 10 percent slopes, eroded	14C2	Ava silt loam, 5 to 10 percent slopes, eroded
48, V48	Ebbert silt loam	48	Ebbert silt loam
109	Raccoon silt loam	109	Raccoon silt loam
120, 474	Huey silt loam	120	Huey silt loam
131R, 53B	Alvin fine sandy loam, 1 to 5 percent slopes	131R	Alvin fine sandy loam, 1 to 5 percent slopes
131C2	Alvin fine sandy loam, 5 to 12 percent slopes, eroded	131C2	Alvin fine sandy loam, 5 to 12 percent slopes, eroded
131E2, 131D2, 134D2	Alvin fine sandy loam, 12 to 25 percent slopes, eroded	131E2	Alvin fine sandy loam, 12 to 25 percent slopes, eroded
138	Shiloh silty clay loam	138	Shiloh silty clay loam
178	Ruark fine sandy loam	178	Ruark fine sandy loam
184, 132, 132A, 151B	Roby fine sandy loam	184	Roby fine sandy loam
212B, 134B, 243B, 430B	Thebes silt loam, 1 to 5 percent slopes	212B	Thebes silt loam, 1 to 5 percent slopes

## JASPER COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
212C2, 134C2	Thebes silt loam, 5 to 10 percent slopes, eroded	212C2	Thebes silt loam, 5 to 10 percent slopes, eroded
218	Newberry silt loam	218	Newberry silt loam
424	Shoals silt loam	424	Shoals silt loam
533	Urban land	533	Urban land
581B2, 581C3, 581C2	Tamalco silt loam, 1 to 5 percent slopes, eroded	581B2	Tamalco silt loam, 1 to 5 percent slopes, eroded
620A, 620B	Darmstadt silt loam, 0 to 2 percent slopes	620A	Darmstadt silt loam, 0 to 2 percent slopes
620B2	Darmstadt silt loam, 2 to 5 percent slopes, eroded	620B2	Darmstadt silt loam, 2 to 5 percent slopes, eroded
779D, 53C2, 53D, 53D2, 808C, 862	Chelsea loamy fine sand, 7 to 18 percent slopes	779D	Chelsea loamy fine sand, 7 to 18 percent slopes
805C, 802, 802B, 802D, 802E	Orthents, clayey, sloping	805C	Orthents, clayey, sloping
866, 536	Dumps, slurry	866	Dumps, slurry
967F, 967E	Hickory-Gosport complex, 18 to 30 percent slopes	967F	Hickory-Gosport complex, 18 to 30 percent slopes
967G	Hickory-Gosport complex, 30 to 60 percent slopes	967G	Hickory-Gosport complex, 30 to 60 percent slopes
991	Cisne-Huey silt loams	991	Cisne-Huey silt loams
3071, 71, 465, 404, 524	Darwin silty clay, frequently flooded	3071	Darwin silty clay, frequently flooded

## JASPER COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
3288, 108, 70, 334, 288	Petrolia silty clay loam, frequently flooded	3288	Petrolia silty clay loam, frequently flooded
3304, 92, 304	Landes fine sandy loam, frequently flooded	3304	Landes fine sandy loam, frequently flooded
3331, 597, 226, 331	Haymond silt loam, frequently flooded	3331	Haymond silt loam, frequently flooded
3333, 382, 225, 333	Wakeland silt loam, frequently flooded	3333	Wakeland silt loam, frequently flooded
7071	Darwin silty clay, rarely flooded	7071	Darwin silty clay, rarely flooded
7288	Petrolia silty clay loam, rarely flooded	7288	Petrolia silty clay loam, rarely flooded
7304	Landes fine sandy loam, rarely flooded	7304	Landes fine sandy loam, rarely flooded
7331	Haymond silt loam, rarely flooded	7331	Haymond silt loam, rarely flooded
7333	Wakeland silt loam, rarely flooded	7333	Wakeland silt loam, rarely flooded

Jasper County, Illinois

Series Established by This Correlation:

None

Series Dropped or Made Inactive:

None

Certification Statement:

The state soil scientist certifies that:

1. The field mapping is complete.
2. The general soil map and the detailed soil maps have been joined with the maps of adjoining counties. A detailed join statement is in the field correlation.
3. The interpretations are coordinated except as explained in the join statement.
4. The location of pedon descriptions are in soil areas using those names and legal descriptions. The locations have been checked by the survey leader and his staff.

Verification of Exact Cooperator Names:

For the front cover, general soil map, and half-title page:

United States Department of Agriculture  
Soil 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: "It is part of the technical assistance provided to the Jasper County Soil and Water Conservation District. The cost was shared by the Jasper County Board and the Illinois Department of Agriculture. This soil survey is Illinois Agricultural Experiment Station Soil Report No. 136."

Disposition of Field Sheets:

The soil maps have been compiled at a scale of 1:15,840, and the compiled maps, field sheets, names overlay, topographic maps, and all map materials have been delivered to the map finishing unit at the state office. Blue-line copies of compiled maps are with (a) the district conservationist at the Newton Field Office, (b) the Jasper County Supervisor of Assessments, and (c) the survey leader in Paris, Illinois.

Prior Soil Survey Publication:

The first soil survey of Jasper County was published in 1940. Smith, R. S., and L. H. Smith, Jasper County Soils, June 1940. Soil Report No. 68. University of Illinois, Urbana. 27 pp. This survey updates the first survey and provides additional information and larger maps that show soils in greater detail.

# CONVENTIONAL AND SPECIAL SYMBOLS LEGEND

Soil Survey Area: Jasper County  
State: Illinois

Date: 7/86

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
<b>CULTURAL FEATURES</b>		<b>CULTURAL FEATURES (cont.)</b>		<b>SPECIAL SYMBOLS FOR SOIL SURVEY</b>	
<b>BOUNDARIES</b>				<b>SOIL DELINEATIONS AND SOIL SYMBOLS</b>	
County or parish				ESCARPMENTS	
Reservation (national forest or park, state forest or park, and large airport)				Other (than bedrock (points down slope))	
Field sheet matchline & neeline				SHORT STEEP SLOPE	
AD HOC BOUNDARY (label)				DEPRESSION OR SINK	
Small airport, airfield, park, oilfield, cemetery, or flood pool				SOIL SAMPLE SITE (normally not shown) (Typical pedon)	
STATE COORDINATE TICK 1890 000 FEET		<b>WATER FEATURES</b>		MISCELLANEOUS	
LAND DIVISION CORNERS (sections and land grants)		<b>DRAINAGE</b>		Gumbo, stick or scabby spot (sodic)	
ROADS		Perennial, double line		Rock outcrop (Includes sandstone and shale)	
		Perennial, single line		Sandy spot	
		Intermittent		Severely eroded spot	
		Drainage end			
		Canals or ditches			
		Drainage and/or irrigation			
State		<b>LAKES, PONDS AND RESERVOIRS</b>		RECOMMENDED AD HOC SOIL SYMBOLS	
Other		Perennial		Oil-waste Land	
RAILROAD		Intermittent		Sand Pit	
Do not name. Label only as R.R.	Label				
		<b>MISCELLANEOUS WATER FEATURES</b>			
LEVEES		Marsh or swamp			
Without road		Wet spot			
DAMS					
Large (to scale)					
Medium or small					

Instructions for Map Finishing:

Map finishing will be done in the map finishing unit at the Illinois State Office using the soil identification legend and symbols legend approved at the final correlation conference. Symbols for map finishing should not be ordered until after the final correlation conference. All publication symbols will be shown as approved in the conversion legend of the correlation document. The survey leader and the soil conservation technician have checked the drainage patterns on the compiled maps and made some changes. Copies of the maps affected have been marked in red and sent with instructions to the map finishing unit. Map unit 800C was deleted during correlation. Those areas will be included with map unit 779D and an ad hoc symbol for Sand Pit will be added during map finishing.

## SOIL SURVEY JASPER COUNTY, ILLINOIS

## PRIME FARMLAND

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name)

Map symbol	Soil name
2	Cisne silt loam (where drained)
3B	Hoyleton silt loam, 1 to 3 percent slopes
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
4B	Richview silt loam, 2 to 5 percent slopes
13A	Bluford silt loam, 0 to 2 percent slopes (where drained)
13B2	Bluford silt loam, 2 to 5 percent slopes, eroded (where drained)
14B	Ava silt loam, 1 to 5 percent slopes
48	Ebbert silt loam (where drained)
109	Racoon silt loam (where drained)
131B	Alvin fine sandy loam, 1 to 5 percent slopes
138	Shiloh silty clay loam (where drained)
178	Ruark fine sandy loam (where drained)
184	Roby fine sandy loam
212B	Thebes silt loam, 1 to 5 percent slopes
218	Newberry silt loam (where drained)
424	Shoals silt loam (where drained and either protected from flooding or not frequently flooded during the growing season)
3288	Petrolia silty clay loam, frequently flooded (where drained and either protected from flooding or not frequently flooded during the growing season)
3304	Landes fine sandy loam, frequently flooded (where protected from flooding or not frequently flooded during the growing season)
3331	Haymond silt loam, frequently flooded (where protected from flooding or not frequently flooded during the growing season)
3333	Wakeland silt loam, frequently flooded (where drained and either protected from flooding or not frequently flooded during the growing season)
7071	Darwin silty clay, rarely flooded (where drained)
7288	Petrolia silty clay loam, rarely flooded (where drained)
7304	Landes fine sandy loam, rarely flooded
7331	Haymond silt loam, rarely flooded
7333	Wakeland silt loam, rarely flooded (where drained)

Approved: October 1, 1986

*Gerald Z. Post (acting)*

RODNEY F. HARNER  
Head, Soils Staff  
Midwest NTC

CONVERSION LEGEND FOR  
JASPER COUNTY, ILLINOIS

Field symbol	Publi- cation symbol						
V48	48	92	3304	533	533		
2	2	108	3288	536	866		
3A	3B	109	109	581B2	581B2		
3B	3B	119C2	14C2	581C2	581B2		
3B2	3B2	119C3	14C2	581C3	581B2		
4B	4B	119D2	7D2	597	3331		
4C2	4C2	119D3	7D3	605D2	7D2		
5C2	7C2	120	120	605D3	7D3		
5C3	7C3	131B	131B	620A	620A		
5D2	7D2	131C2	131C2	620B	620A		
5D3	7D3	131D2	131E2	620B2	620B2		
7C2	7C2	131E2	131E2	779D	779D		
7C3	7C3	132	184	800C	779D		
7D2	7D2	132A	184	802	805C		
7D3	7D3	134B	212B	802E	805C		
8D2	7D2	134C2	212C2	802D	805C		
8D3	7D3	134D2	131E2	802E	805C		
8E	8F	138	138	805C	805C		
8E2	8F2	151F	184	862	779D		
8E3	8F2	178	178	866	866		
8F	8F	184	184	912A	3B		
8F2	8F2	212B	212B	912B2	3B2		
8G	8G	212C2	212C2	929D3	7D3		
12	12	218	218	967E	967F		
13A	13A	225	3333	967F	967F		
13B	13A	226	3331	967G	967G		
13B2	13B2	243B	212B	991	991		
14B	14B	287	2	3071	3071		
14B2	14B	288	3288	3288	3288		
14C2	14C2	304	3304	3304	3304		
14C3	14C2	331	3331	3331	3331		
14D2	7D2	333	3333	3333	3333		
14D3	7D3	334	3288	7071	7071		
48	48	382	3333	7288	7288		
53B	131B	404	3071	7304	7304		
53C2	779D	424	424	7331	7331		
53D	779D	430B	212B	7333	7333		
53D2	779D	465	3071				
70	3288	474	120				
71	3071	524	3071				

LEGEND OF MAP UNITS ACCORDING TO ALPHABETICAL SEQUENCE  
FOR JASPER COUNTY, ILLINOIS

Publication Symbol	Approved Map Unit Name
131B	ALVIN FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES
131E2	ALVIN FINE SANDY LOAM, 12 TO 25 PERCENT SLOPES, ERODED
131C2	ALVIN FINE SANDY LOAM, 5 TO 12 PERCENT SLOPES, ERODED
7D2	ATLAS SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED
7C2	ATLAS SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
7D3	ATLAS SILTY CLAY LOAM, 10 TO 15 PERCENT SLOPES, SEVERELY ERODED
7C3	ATLAS SILTY CLAY LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED
14B	AVA SILT LOAM, 1 TO 5 PERCENT SLOPES
14C2	AVA SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
13A	BLUFORD SILT LOAM, 0 TO 2 PERCENT SLOPES
13B2	BLUFORD SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED
779D	CHELSEA LOAMY FINE SAND, 7 TO 18 PERCENT SLOPES
2	CISNE SILT LOAM
991	CISNE-HUEY SILT LOAMS
620A	DARMSTADT SILT LOAM, 0 TO 2 PERCENT SLOPES
620B2	DARMSTADT SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED
3071	DARWIN SILTY CLAY, FREQUENTLY FLOODED
7071	DARWIN SILTY CLAY, RARELY FLOODED
865	DUMPS, SLURRY
48	EBBERT SILT LOAM
3331	HAYMOND SILT LOAM, FREQUENTLY FLOODED
7331	HAYMOND SILT LOAM, RARELY FLOODED
8F	HICKORY LOAM, 15 TO 30 PERCENT SLOPES
8F2	HICKORY LOAM, 15 TO 30 PERCENT SLOPES, ERODED
8G	HICKORY LOAM, 30 TO 60 PERCENT SLOPES

LEGEND OF MAP UNITS ACCORDING TO ALPHABETICAL SEQUENCE  
FOR JASPER COUNTY, ILLINOIS

Publication Symbol	Approved Map Unit Name
967F	HICKORY-GOSPORT COMPLEX, 18 TO 30 PERCENT SLOPES
967G	HICKORY-GOSPORT COMPLEX, 30 TO 60 PERCENT SLOPES
3B	HOYLETON SILT LOAM, 1 TO 3 PERCENT SLOPES
3B2	HOYLETON SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED
120	HUEY SILT LOAM
3304	LANDES FINE SANDY LOAM, FREQUENTLY FLOODED
7304	LANDES FINE SANDY LOAM, RARELY FLOODED
21F	NEWBERRY SILT LOAM
805C	ORTHENTS, CLAYEY, SLOPING
3288	PETROLIA SILTY CLAY LOAM, FREQUENTLY FLOODED
7288	PETROLIA SILTY CLAY LOAM, RARELY FLOODED
109	RACCOON SILT LOAM
4B	RICHVIEW SILT LOAM, 2 TO 5 PERCENT SLOPES
4C2	RICHVIEW SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
184	ROBY FINE SANDY LOAM
178	RUARK FINE SANDY LOAM
138	SHILOH SILTY CLAY LOAM
424	SHOALS SILT LOAM
581B2	TAMALCO SILT LOAM, 1 TO 5 PERCENT SLOPES, ERODED
212B	THEBES SILT LOAM, 1 TO 5 PERCENT SLOPES
212C2	THEBES SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
533	URBAN LAND
3333	WAKELAND SILT LOAM, FREQUENTLY FLOODED
7333	WAKELAND SILT LOAM, RARELY FLOODED
12	WYNOOSE SILT LOAM

CLASSIFICATION OF PEDONS SAMPLED  
FOR LABORATORY ANALYSIS

1. Laboratory Data from NSSL with SCS-SOILS-8 forms.

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Blair	83IL-079-20	7C2	Atlas; (2) Fine, montmorillonitic, mesic, sloping Aeric Ochraqualf
Bloomfield	84IL-079-75	779D	Chelsea(1)
Darmstadt	84IL-079-29	620A	Darmstadt(1)
Hoyleton	82IL-079-21	3B	Hoyleton(1)
Huey	S58ILL-38-1	120	Huey(2)
Huey	83IL-079-15	120	Huey(1)
Petrolia	84IL-079-27	7288	Petrolia(1)(2)
Raccoon	83IL-079-53	109	Raccoon(1)(2)
Shiloh	83IL-079-6	138	Shiloh(1)
Thebes, tax.	84IL-079-88	212B	Thebes, taxadjunct;(1)(2) Fine-loamy, mixed, mesic Typic Hapludalf

2. Data from the Pedology Laboratory, University of Illinois, with  
SCS-SOILS-8 forms.

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Blair	83IL-079-20	7C2	Atlas(3)
Birds	83IL-079-33	3288	Birds; Mapped as inclusion in Petrolia.
Bonnie	83IL-079-42	3288	Bonnie; Mapped as inclusion in Petrolia 3288.

CLASSIFICATION OF PEDONS SAMPLED  
FOR LABORATORY ANALYSIS (Continued)

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Cisne	84IL-079-40	2	Cisne(1); Type location of series.
Darmstadt	82IL-079-16	620A	Darmstadt
Darmstadt	83IL-079-57	620B2	Darmstadt
Montgomery	82IL-079-23	7071	Darwin. More acid than defined for the series. Mapped as inclusion in Darwin 7071. On flood plain.
Huey	S58ILL-38-1	120	Huey(3)
Newberry	83IL-079-56	218	Newberry(1)
(Petrolia)	82IL-079-27	7288	Petrolia(3)
Racoon	83IL-079-53	109	Racoon(1)(3)
(Ruark)	82IL-079-22	178	Ruark; Reaction is higher than defined for Ruark series.
Tamalco	83IL-079-34	620A	Tamalco; This pedon is a moderately eroded inclusion in Darmstadt 620A, and has a slightly thinner solum than defined for Tamalco.
Tamalco	83IL-079-21	581B2	Tamalco(1); The clay maximum in the Bt horizon is higher and the solum is somewhat thinner than defined for the Talmalco series.

CLASSIFICATION OF PEDONS SAMPLED  
FOR LABORATORY ANALYSIS (Continued)

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Thebes	84IL-079-88	212B	Thebes, taxadjunct; (1)(3) Fine-loamy, mixed, mesic Typic Hapludalf.
Wynoose	82IL-0079-14	12	Wynoose
Zipp	83IL-079-64	7071	Zipp; Low pH in the lower part of the Bg horizon and in the Cg horizon. Mapped as inclusion in Darwin 7071.

3. Engineering test data from Illinois Department of Transportation with  
SCS-SOILS-10 forms.

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
✓ Bloomfield	84IL-079-75	779D	Chelsea(1)
✓ Darmstadt	84IL-079-29	620A	Darmstadt(1)
✓ Hoyleton	82IL-079-21	3B	Hoyleton(1)
✓ Huey	83IL-079-15	120	Huey(1)
✓ Petrolia	84IL-079-27	7288	Petrolia(1)
✓ Racoon	83IL-079-53	109	Racoon(1)
✓ Shiloh	83IL-079-6	138	Shiloh(1)
✓ Thebes, tax.	84IL-079-88	212B	Thebes, taxadjunct; (1) Fine-loamy, mixed, mesic Typic Hapludalf.

Atlas 84 IL-079-064  
Wakeland 84 IL-079-063

Atlas taxadjunct  
fine-loamy ---  
Wakeland taxadjunct  
fine-silty

CLASSIFICATION OF PEDONS SAMPLED  
FOR LABORATORY ANALYSIS (Continued)

4. Other data not to be published in the national pedon data file.

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Unnamed (Alvin)	82IL-079-15	131B	Alvin, taxadjunct; Fine-loamy, mixed, mesic Typic Hapludalf. Mapped as inclusion in Alvin 131B.
Atlas	84IL-079-64	7C2	Atlas taxadjunct; (3)(4) Fine-loamy, mixed, mesic, sloping Aeric Ochraqualf. Mapped as inclusion in Atlas 7C2.
Blair	83IL-079-47	7D3	Atlas, taxadjunct; Fine-loamy, mixed, mesic, sloping Aeric Ochraqualf. Mapped as inclusion in Atlas 7D3.
Belknap	83IL-079-27	3333	Belknap, taxadjunct; Fine-loamy, mixed, acid, mesic Aeric Fluvaquent. Mapped as an inclusion in Wakeland 3333.
(Blair)	82IL-079-26	7C2	Blair, taxadjunct; Fine-loamy, mixed, mesic Aquic Hapludalf. Mapped as inclusion in Atlas 7C2.
(Cisne)	82IL-079-8	2	Cisne, taxadjunct; Fine-silty, mixed, mesic Mollic Albaqualf. Mapped as inclusion in Cisne 2.

CLASSIFICATION OF PEDONS SAMPLED  
FOR LABORATORY ANALYSIS (Continued)

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
(Haymond)	82IL-079-10	3331	Haymond, taxadjunct; Fine-silty, mixed, nonacid, mesic Typic Udifuvents. Mapped as inclusion in Haymond 3331.
Huey	82IL-079-3	120	Huey, taxadjunct; Fine; montmorillonitic, mesic Typic Ochraqualf. Not natric. Mapped as inclusion in Huey 120.
Petrolia	83IL-079-63	3288	Petrolia, taxadjunct; Fine-loamy, mixed, nonacid, mesic Typic Fluvaquent. Mapped as inclusion in Petrolia 3288.
(Petrolia)	82IL-079-25	7288	Petrolia, taxadjunct; Fine-loamy, mixed, nonacid, mesic Typic Fluvaquent. Mapped as inclusion in Petrolia 7288.
Ruark	83IL-079-39	178	Ruark; Has till substratum and low pH. Mapped as inclusion in Ruark 178.
Wakeland	84IL-079-63	3333	Wakeland, taxadjunct; (3)(4) Fine-silty, mixed, nonacid, mesic Aeric Fluvaquent. Mapped as inclusion in Wakeland 3333.

CLASSIFICATION OF PEDONS SAMPLED  
FOR LABORATORY ANALYSIS (Continued)

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Wakeland	83IL-079-50	3333	Wakeland, taxadjunct; Coarse-loamy, mixed, nonacid, mesic Aeric Fluvaquent. Mapped as inclusion in Wakeland 3333.
Wakeland	83IL-079-29	3333	Wakeland, taxadjunct; Fine-silty, mixed, nonacid, mesic Aeric Fluvaquent. Mapped as inclusion in Wakeland 3333.
Wakeland	83IL-079-46	3333	Wakeland, taxadjunct; Fine-loamy, mixed, nonacid, mesic Aeric Fluvaquent. Mapped as inclusion in Wakeland 3333.
(Wakeland)	82IL-079-6	3333	Wakeland, taxadjunct; Coarse-loamy, mixed, nonacid, mesic Aeric Fluvaquent. Mapped as inclusion in Wakeland 3333.

- (1) Typical pedon for Jasper County.
- (2) Additional data from U of IL pedology lab.
- (3) Additional data from NSSL.
- (4) Additional data from IL Dept. of Transportation.

Notes to Accompany the  
Classification and Correlation  
of the Soils of  
Jasper County, Illinois  
by  
Louie L. Buller

CHELSEA SERIES

The 800C, Psammets, sloping map unit had 20 acres. It was included with the 779D, Chelsea loamy fine sand, 7 to 18 percent slopes map unit, and the areas on the maps marked with an ad hoc Sand Pit spot symbol. The areas were old sand pits.

CISNE SERIES

This is the type location for the series.

DARMSTADT SERIES

The clay content in the argillic horizon is slightly higher than defined for the Darmstadt series but these soils are not called taxadjuncts.

RACoon SERIES

The soils in this survey area have layers in the control section that have reaction values that are in the upper end of the extremely acid range. These values are slightly lower than typical for the Racoon series but do not have a detrimental effect on the use and management of these soils.

RICHVIEW SERIES

The soils in the eroded 4C2 map unit have grayer colors in the subsoil than defined for the Richview series.

RUARK SERIES

These soils have neutral reaction in the control section. This is higher reaction than defined for the series.

TAMALCO SERIES

The clay content in the upper subhorizon of the argillic horizon is higher than defined for the series.

THEBES SERIES

These soils are taxadjuncts because the transition layer between the contrasting particle classes is more than 5 inches thick and the argillic horizon is fine-loamy rather than fine-silty. The taxadjunct classifies as fine-loamy, mixed, mesic Typic Hapludalfs.

## SOIL SURVEY JASPER COUNTY, ILLINOIS

## CLASSIFICATION OF THE SOILS

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

Soil name	Family or higher taxonomic class
Alvin-----	Coarse-loamy, mixed, mesic Typic HapludalFs
Atlas-----	Fine, montmorillonitic, mesic, sloping Aeric OchraqualFs
Ava-----	Fine-silty, mixed, mesic Typic FragiudalFs
Bluford-----	Fine, montmorillonitic, mesic Aeric OchraqualFs
Chelsea-----	Mixed, mesic Albic Udipsamments
Cisne-----	Fine, montmorillonitic, mesic Mollic AlbaqualFs
Darmstadt-----	Fine-silty, mixed, mesic Albic NatraqualFs
Darwin-----	Fine, montmorillonitic, mesic Vertic Haplaquolls
Ebbert-----	Fine-silty, mixed, mesic Argiaquic Argialbolls
Gosport-----	Fine, illitic, mesic Typic Dystrochrepts
Haymond-----	Coarse-silty, mixed, nonacid, mesic Typic Udifluvents
Hickory-----	Fine-loamy, mixed, mesic Typic HapludalFs
Hoyleton-----	Fine, montmorillonitic, mesic Aquollic HapludalFs
Huey-----	Fine-silty, mixed, mesic Typic NatraqualFs
Landes-----	Coarse-loamy, mixed, mesic Fluventic Hapludolls
Newberry-----	Fine-silty, mixed, mesic Mollic OchraqualFs
Orthents-----	Fine, mixed, mesic Udorthents
Petrolia-----	Fine-silty, mixed, nonacid, mesic Typic Fluvaquents
Racoon-----	Fine-silty, mixed, mesic Typic OchraqualFs
Richview-----	Fine-silty, mixed, mesic Mollic HapludalFs
Roby-----	Coarse-loamy, mixed, mesic Aquic HapludalFs
Ruark-----	Fine-loamy, mixed, mesic Typic OchraqualFs
Shiloh-----	Fine, montmorillonitic, mesic Cumulic Haplaquolls
Shoals-----	Fine-loamy, mixed, nonacid, mesic Aeric Fluvaquents
Tamalco-----	Fine, montmorillonitic, mesic Typic NatrudalFs
*Thebes-----	Fine-silty over sandy or sandy-skeletal, mixed, mesic Typic HapludalFs
Wakeland-----	Coarse-silty, mixed, nonacid, mesic Aeric Fluvaquents
Wynoose-----	Fine, montmorillonitic, mesic Typic AlbaqualFs

