CLASSIFICATION AND CORRELATION

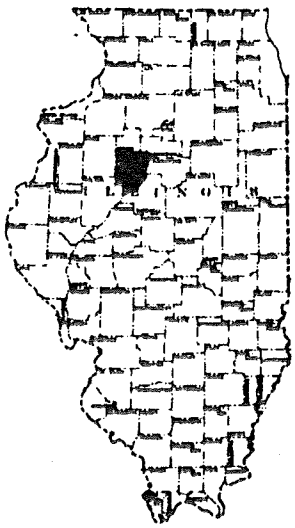
OF

THE SOILS OF

PEORIA COUNTY
ILLINOIS

MAY 1986

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 Peoria County, Illinois

This correlation was prepared by Robert I. Turner in consultation with Mike Walker, soil survey leader and J. Wiley Scott, state soil correlator. The correlation conference was held at the Technical Service Center at Lincoln, Nebraska, during the period of June 24-28, 1985. The final correlation decisions were based upon the first draft of the soil survey report, correlation samples, field correlation and final field review, some laboratory data, interpretations based on the information on the SCS-SOILS-5 forms, and the soil maps of the area. Robert I. Turner attended the comprehensive field review the week of September 26-30, 1983.

Headnote for Detailed Soil Survey Legend:
Map symbols consist of numbers or a combination of numbers and letters. The initial numbers represent the kind 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 that the soil is moderately eroded, and 3 indicates that it is severely eroded.

SOIL CORRELATION OF
PEORIA COUNTY, ILLINOIS

Field symbols	Field map unit name	Publication symbol	Approved map unit name
8D, 250D2, 8D2	Hickory silt loam, 8 to 15 percent slopes	8D	Hickory silt loam, 8 to 15 percent slopes
8E, 8E2	Hickory silt loam, 15 to 30 percent slopes	8E	Hickory silt loam, 15 to 30 percent slopes
8G	Hickory loam, 30 to 50 percent slopes	8G	Hickory loam, 30 to 50 percent slopes
16	Rushville silt loam	16	Rushville silt loam
17A, 278	Keomah silt loam, 0 to 3 percent slopes	17	Keomah silt loam
19C3	Sylvan silty clay loam, 5 to 10 percent slopes, severely eroded	19C3	Sylvan silty clay loam, 5 to 10 percent slopes, severely eroded
19D3	Sylvan silty clay loam, 10 to 15 percent slopes, severely eroded	19D3	Sylvan silty clay loam, 10 to 15 percent slopes, severely eroded
19E3	Sylvan silty clay loam, 15 to 20 percent slopes, severely eroded	19E3	Sylvan silty clay loam, 15 to 20 percent slopes, severely eroded
24C2	Dodge silt loam, 5 to 10 percent slopes, eroded	24C2	Dodge silt loam, 5 to 10 percent slopes, eroded
24D, 24D2	Dodge silt loam, 10 to 18 percent slopes	24D	Dodge silt loam, 10 to 18 percent slopes
28	Jules silt loam	28	Jules silt loam
36B, 36B2, 36A	Tama silt loam, 1 to 5 percent slopes	36B	Tama silt loam, 1 to 5 percent slopes
36C2, 386C	Tama silt loam, 5 to 10 percent slopes, eroded	36C2	Tama silt loam, 5 to 10 percent slopes, eroded

PEORIA COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
37B, 37A	Worthen silt loam, 1 to 5 percent slopes	37B	Worthen silt loam, 1 to 5 percent slopes
43A, 41A	Ipava silt loam, 0 to 3 percent slopes	43	Ipava silt loam
45	Denny silt loam	45	Denny silt loam
54B	Plainfield loamy sand, 3 to 7 percent slopes	54B	Plainfield loamy sand, 3 to 7 percent slopes
54D, 779C2, 54C, 54C2, 54D2	Plainfield loamy sand, 7 to 18 percent slopes	54D	Plainfield loamy sand, 7 to 18 percent slopes
59A, 154A	Lisbon silt loam, 0 to 3 percent slopes	59	Lisbon silt loam
67	Harpster silty clay loam	67	Harpster silty clay loam
68, 50, 206	Sable silty clay loam	68	Sable silty clay loam
74	Radford silt loam	74	Radford silt loam
77, 321	Huntsville silt loam	77	Huntsville silt loam
87B, 87A, 150B, 266, 265, 73	Dickinson sandy loam, 1 to 4 percent slopes	87B	Dickinson sandy loam, 1 to 4 percent slopes
92A, 92	Sarpy loamy sand, 0 to 3 percent slopes	92A	Sarpy loamy sand, 0 to 3 percent slopes
104A	Virgil silt loam, 0 to 3 percent slopes	104	Virgil silt loam
107	Sawmill silty clay loam	107	Sawmill silty clay loam
119D2, 6C2, 6D2, 119C2	Elco silt loam, 8 to 15 percent slopes, eroded	119D2	Elco silt loam, 8 to 15 percent slopes, eroded

PEORIA COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
119E, 119E2	Elco silt loam, 15 to 20 percent slopes	119E	Elco silt loam, 15 to 20 percent slopes
131D2	Alvin fine sandy loam, 7 to 15 percent slopes, eroded	131D2	Alvin fine sandy loam, 7 to 15 percent slopes, eroded
132A, 132B	Starks silt loam, 0 to 3 percent slopes	132	Starks silt loam
134B	Camden silt loam, 2 to 5 percent slopes	134B	Camden silt loam, 2 to 5 percent slopes
134C2	Camden silt loam, 5 to 10 percent slopes, eroded	134C2	Camden silt loam, 5 to 10 percent slopes, eroded
134D2, 134E2	Camden silt loam, 10 to 18 percent slopes, eroded	134D2	Camden silt loam, 10 to 18 percent slopes, eroded
145B2, 57B2, 145B	Saybrook silt loam, 2 to 5 percent slopes, eroded	145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded
145C2, 57C2, 60C2, 60D3	Saybrook silt loam, 5 to 10 percent slopes, eroded	145C2	Saybrook silt loam, 5 to 10 percent slopes, eroded
148B	Proctor silt loam, 2 to 5 percent slopes	148B	Proctor silt loam, 2 to 5 percent slopes
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded	148C2	Proctor silt loam, 5 to 10 percent slopes, eroded
149	Brenton silt loam	149	Brenton silt loam
152	Drummer silty clay loam	152	Drummer silty clay loam
171B2, 171B	Catlin silt loam, 2 to 5 percent slopes, eroded	171B2	Catlin silt loam, 2 to 5 percent slopes, eroded

PEORIA COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded	171C2	Catlin silt loam, 5 to 10 percent slopes, eroded
198A	Elburn silt loam, 0 to 3 percent slopes	198	Elburn silt loam
199B	Plano silt loam, 1 to 5 percent slopes	199B	Plano silt loam, 1 to 5 percent slopes
210, 103	Lena muck	210	Lena muck
224D3	Strawn silty clay loam, 8 to 15 percent slopes, severely eroded	224D3	Strawn silty clay loam, 8 to 15 percent slopes, severely eroded
224E, 25E2, 25F2, 224E2, 224F2	Strawn silt loam, 15 to 30 percent slopes	224E	Strawn silt loam, 15 to 30 percent slopes
239	Dorchester silt loam	239	Dorchester silt loam
243B	St. Charles silt loam, 2 to 5 percent slopes	243B	St. Charles silt loam, 2 to 5 percent slopes
243C2, 344C2	St. Charles silt loam, 5 to 10 percent slopes, eroded	243C2	St. Charles silt loam, 5 to 10 percent slopes, eroded
257A, 61A	Clarksdale silt loam, 0 to 3 percent slopes	257	Clarksdale silt loam
259C2	Assumption silt loam, 5 to 10 percent slopes, eroded	259C2	Assumption silt loam, 5 to 10 percent slopes, eroded
259D2	Assumption silt loam, 10 to 15 percent slopes, eroded	259D2	Assumption silt loam, 10 to 15 percent slopes, eroded
279B, 188, 280B	Rozetta silt loam, 1 to 5 percent slopes	279B	Rozetta silt loam, 1 to 5 percent slopes

PEORIA COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded	279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded	280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
280D2	Fayette silt loam, 10 to 15 percent slopes, eroded	280D2	Fayette silt loam, 10 to 15 percent slopes, eroded
280E	Fayette silt loam, 15 to 30 percent slopes	280E	Fayette silt loam, 15 to 30 percent slopes
282F, 131E2, 93E2, 93G	Chute loamy fine sand, 18 to 35 percent slopes	282F	Chute loamy fine sand, 18 to 35 percent slopes
290A, 379A, 290B	Warsaw silt loam, 0 to 3 percent slopes	290A	Warsaw silt loam, 0 to 3 percent slopes
304B, 682A, 304A	Landes loam, 1 to 5 percent slopes	304B	Landes loam, 1 to 5 percent slopes
330	Peotone silty clay loam	330	Peotone silty clay loam
344B	Harvard silt loam, 2 to 5 percent slopes	344B	Harvard silt loam, 2 to 5 percent slopes
386B	Downs silt loam, 1 to 5 percent slopes	386B	Downs silt loam, 1 to 5 percent slopes
404, 71	Titus silty clay loam	404	Titus silty clay loam
3333	Wakeland silt loam	406	Paxico silt loam, frequently flooded, brief duration
415	Orion silt loam	415	Orion silt loam
439B, 440B	Jasper loam, sandy substratum, 1 to 4 percent slopes	439B	Jasper loam, sandy substratum, 1 to 4 percent slopes

PEORIA COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
451, 1451	Lawson silt loam	451	Lawson silt loam
533	Urban land	533	Urban land
536	Dumps, mine	536	Dumps, mine
549E, 549D2, 549E2	Marseilles silt loam, 15 to 30 percent slopes,	549E	Marseilles silt loam, 15 to 30 percent slopes
549G	Marseilles silt loam, 30 to 60 percent slopes	549G	Marseilles silt loam, 30 to 60 percent slopes
567B2	Elkhart silty clay loam, 2 to 5 percent slopes, eroded	567B2	Elkhart silty clay loam, 2 to 5 percent slopes, eroded
567C2	Elkhart silty clay loam, 5 to 10 percent slopes, eroded	567C2	Elkhart silty clay loam, 5 to 10 percent slopes, eroded
743B2, 743A, 743B, 745B2, 743C2	Ridott silt loam, 1 to 5 percent slopes, eroded	743B2	Ridott silty clay loam, 1 to 5 percent slopes, eroded
857G, 25G, 224G, 757G	Strawn-Hennepin loams, 30 to 60 percent slopes	857G	Strawn-Hennepin loams, 30 to 60 percent slopes
864	Pits, quarries	864	Pits, quarries
865	Pits, gravel	865	Pits, gravel
871B	Lenzburg silt loam, 1 to 7 percent slopes	871B	Lenzburg silt loam, 1 to 7 percent slopes, stony
871D	Lenzburg silt loam, 7 to 20 percent slopes	871D	Lenzburg silt loam, 7 to 20 percent slopes, stony
871G	Lenzburg silt loam, 20 to 60 percent slopes	871G	Lenzburg silt loam, 20 to 60 percent slopes, stony

PEORIA COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
872B	Rapatee silt loam, 1 to 5 percent slopes	872B	Rapatee silt loam, 1 to 5 percent slopes
872C	Rapatee silt loam, 5 to 12 percent slopes	872C	Rapatee silty clay loam, 5 to 12 percent slopes
2017A	Keomah-Urban land complex, 0 to 3 percent slopes	2017	Keomah-Urban land complex
2036B	Tama-Urban land complex, 1 to 5 percent slopes	2036B	Tama-Urban land complex, 1 to 5 percent slopes
2224D	Strawn-Urban land complex, 8 to 20 percent slopes	2224D	Strawn-Urban land complex, 8 to 20 percent slopes
2279B	Rozetta-Urban land complex, 3 to 8 percent slopes	2279B	Rozetta-Urban land complex, 3 to 8 percent slopes
2290A, 2290B	Warsaw-Urban land complex, 0 to 3 percent slopes	2290A	Warsaw-Urban land complex, 0 to 3 percent slopes
2439B	Jasper loam, sandy substratum-Urban land complex, 1 to 7 percent slopes	2439B	Jasper, sandy substratum-Urban land complex, 1 to 7 percent slopes
2802B, 2802, 2801, 2801B, 801, 801B, 802B, 802D	Orthents, loamy-Urban land complex, undulating	2802B	Orthents-Urban land complex, undulating
3070	Beaucoup silty clay loam, frequently flooded	3070	Beaucoup silty clay loam, frequently flooded
333, 331, 334, 1333, 1334	Wakeland silt loam	3496	Paxico silt loam, frequently flooded, long duration

PEORIA COUNTY, ILLINOIS --Continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
70, 1070, 284	Beaucoup silty clay loam	7070	Beaucoup silty clay loam, rarely flooded

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 joining has been checked for both the general soil map and the detailed soil maps. The join is satisfactory and differences in names of map units are explained in detail in the field correlation.

3. Interpretations have been coordinated and agree with those on the soil interpretations records.

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.

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 Peoria County Soil and Water Conservation District. The cost was shared by the Peoria County Board and the Illinois Department of Agriculture. This soil survey is Illinois Agricultural Experiment Station Soil Report No. 132."

Disposition of Field Sheets:
The soil maps have been compiled at a scale of 1:15,840. The compiled maps, field sheets, and all map materials are in the map finishing shop at the Illinois State Office.

Prior Soil Survey Publication:
The first soil survey of Peoria County was published in 1921, and it was revised in 1937. Mosier, J. G., S. V. Holt, E. Van Alstine, F. W Garrett, and L. H. Smith, 1921. Peoria County Soils, University of Illinois Agricultural Experiment Station Soil Report No. 19, 57 pp., Urbana, Illinois; and Smith, R. S. and H. Wascher, June, 1937. Peoria County Soil Types, University of Illinois Agricultural Experiment Station, Urbana, Illinois, 12 pp. This survey updates the first survey and provides additional information and larger maps that show soils in greater detail.

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. The conversion legend in this correlation report should be used for conversion of all symbols that appear on compiled maps.

Soil Survey Area: PEORIA COUNTY
State: ILLINOIS

CONVENTIONAL AND SPECIAL SYMBOLS LEGEND

U.S. DEPARTMENT OF AG
SOIL CONSERVATIO

Date: MAY 198

CULTURAL FEATURES

DESCRIPTION	SYMBOL
BOUNDARIES	
County or parish	
Reservation (national forest or park, state forest or park, and large airport)	
Field sheet matchline & neatline	
AD HOC BOUNDARY (label)	
Small airport, airfield, park, oilfield, cemetery, or flood pool	
STATE COORDINATE TICK 1 890 000 FEET	
LAND DIVISION CORNERS (sections and land grants)	
ROADS	

Verify those shown on the names overlay. Do not draft symbol on field maps.

ROAD EMBLEMS & DESIGNATIONS	
Interstate	66
Federal	287
State	52
RAILROAD	

Label only--do not draft symbol on field map.

LEVEES	
Without road	
DAMS	
Large (to scale)	
Medium or small	
PITS	
Gravel pit	

CULTURAL FEATURES (cont.)

WATER FEATURES

DRAINAGE	
Perennial, double line	
Perennial, single line	
Intermittent	
Drainage end	
Canals or ditches	
Drainage and/or irrigation	
LAKES, PONDS AND RESERVOIRS	
Perennial	WATER
MISCELLANEOUS WATER FEATURES	
Marsh or swamp	
Wet spot	

SPECIAL SYMBOLS FOR SOIL SURVEY

SOIL DELINEATIONS AND SOIL SYMBOLS	
ESCARPMENTS	43 36B
Bedrock (points down slope)	
Other than bedrock (points down slope)	
SHORT STEEP SLOPE	
DEPRESSION OR SINK	
SOIL SAMPLE SITE (normally not shown)	S
MISCELLANEOUS	
Gravelly spot	
Sandy spot	
Severely eroded spot	

RECOMMENDED AD HOC SOIL SYMBOLS

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
17	Keomah silt loam (where drained)
28	Jules silt loam (where protected from flooding or not frequently flooded during the growing season)
36B	Tama silt loam, 1 to 5 percent slopes
37B	Worthen silt loam, 1 to 5 percent slopes
43	Ipava silt loam
45	Denny silt loam (where drained)
59	Lisbon silt loam
67	Harpster silty clay loam (where drained)
68	Sable silty clay loam (where drained)
74	Radford silt loam
77	Huntsville silt loam
87B	Dickinson sandy loam, 1 to 4 percent slopes
104	Virgil silt loam (where drained)
107	Sawmill silty clay loam (where drained and either protected from flooding or not frequently flooded during the growing season)
132	Starks silt loam (where drained)
134B	Camden silt loam, 2 to 5 percent slopes
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded
148B	Proctor silt loam, 2 to 5 percent slopes
149	Brenton silt loam
152	Drummer silty clay loam (where drained)
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded
198	Elburn silt loam
199B	Plano silt loam, 1 to 5 percent slopes
239	Dorchester silt loam (where protected from flooding or not frequently flooded during the growing season)
243B	St. Charles silt loam, 2 to 5 percent slopes
257	Clarksdale silt loam (where drained)
279B	Rozetta silt loam, 1 to 5 percent slopes
290A	Warsaw silt loam, 0 to 3 percent slopes
304B	Landes loam, 1 to 5 percent slopes
330	Peotone silty clay loam (where drained)
344B	Harvard silt loam, 2 to 5 percent slopes
386B	Downs silt loam, 1 to 5 percent slopes

PRIME FARMLAND--Continued

Map symbol	Soil name
404	Titus silty clay loam (where drained)
406	Paxico silt loam, frequently flooded, brief duration (where drained and either protected from flooding or not frequently flooded during the growing season)
415	Orion silt loam (where protected from flooding or not frequently flooded during the growing season)
439B	Jasper loam, sandy substratum, 1 to 4 percent slopes
451	Lawson silt loam (where protected from flooding or not frequently flooded during the growing season)
567B2	Elkhart silty clay loam, 2 to 5 percent slopes, eroded
743B2	Ridott silty clay loam, 1 to 5 percent slopes, eroded
872B	Rapatee silt loam, 1 to 5 percent slopes
7070	Beaucoup silty clay loam, rarely flooded (where drained)

Approved: May 6, 1986

Rodney F. Harner

RODNEY F. HARNER
Head, Soils Staff
Midwest NTC

CONVERSION LEGEND FOR PEORIA COUNTY, ILLINOIS

Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol
6C2	119D2	61A	257	171C2	171C2	386B	386B
6D2	119D2	67	67	198A	198	386C	36C2
8D	8D	68	68	199B	199B	404	404
8D2	8D	70	7070	206	68	415	415
8E	8E	71	404	210	210	439B	439B
8E2	8E	73	87B	224D3	224D3	440B	439B
8G	8G	74	74	224E	224E	451	451
16	16	77	77	224E2	224E	533	533
17A	17	87A	87B	224F2	224E	536	536
18B	279B	87B	87B	224G	857G	549D2	549E
19C3	19C3	92	92A	239	239	549E	549E
19D3	19D3	92A	92A	243B	243B	549E2	549E
19E3	19E3	93E2	282F	243C2	243C2	549G	549G
24C2	24C2	93G	282F	250D2	8D	567B2	567B2
24D	24D	103	210	257A	257	567C2	567C2
24D2	24D	104A	104	259C2	259C2	682A	304B
25E2	224E	107	107	259D2	259D2	743A	743B2
25F2	224E	119C2	119D2	265	87B	743B	743B2
25G	857G	119D2	119D2	266	87B	743B2	743B2
28	28	119E	119E	278	17	743C2	743B2
36A	36B	119E2	119E	279B	279B	745B2	743B2
36B	36B	131D2	131D2	279C2	279C2	757G	857G
36B2	36B	131E2	282F	280B	279B	779C2	54D
36C2	36C2	132A	132	280C2	280C2	801	2802B
37A	37B	132B	132	280D2	280D2	801B	2802B
37B	37B	134B	134B	280E	280E	802B	2802B
41A	43	134C2	134C2	282F	282F	802D	2802B
43A	43	134D2	134D2	284	7070	857G	857G
45	45	134E2	134D2	290A	290A	864	864
50	68	145B	145B2	290B	290A	865	865
54B	54B	145B2	145B2	304A	304B	871B	871B
54C	54D	145C2	145C2	304B	304B	871D	871D
54C2	54D	148B	148B	321	77	871G	871G
54D	54D	148C2	148C2	330	330	872B	872B
54D2	54D	149	149	331	3406	872C	872C
57B2	145B2	150B	87B	333	3406	1070	7070
57C2	145C2	152	152	334	3406	1333	3406
59A	59	154A	59	344B	344B	1334	3406
60C2	145C2	171B	171B2	344C2	243C2	1451	451
60D3	145C2	171B2	171B2	379A	290A	2017A	2017

PEORIA COUNTY, ILLINOIS --Continued

Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol
2036B	2036B						
2224D	2224D						
2279B	2279B						
2290A	2290A						
2290B	2290A						
2439B	2439B						
2801	2802B						
2801B	2802B						
2802	2802B						
2802B	2802B						
3070	3070						
3333	406						

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

Publication Symbol	Approved Map Unit Name
131D2	ALVIN FINE SANDY LOAM, 7 TO 15 PERCENT SLOPES, ERODED
259D2	ASSUMPTION SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED
259C2	ASSUMPTION SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
3070	BEAUCOUP SILTY CLAY LOAM, FREQUENTLY FLOODED
7070	BEAUCOUP SILTY CLAY LOAM, RARELY FLOODED
149	BRENTON SILT LOAM
134D2	CAMDEN SILT LOAM, 10 TO 18 PERCENT SLOPES, ERODED
134B	CAMDEN SILT LOAM, 2 TO 5 PERCENT SLOPES
134C2	CAMDEN SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
171B2	CATLIN SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED
171C2	CATLIN SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
282F	CHUTE LOAMY FINE SAND, 18 TO 35 PERCENT SLOPES
257	CLARKSDALE SILT LOAM
45	DENNY SILT LOAM
87B	DICKINSON SANDY LOAM, 1 TO 4 PERCENT SLOPES
24D	DODGE SILT LOAM, 10 TO 18 PERCENT SLOPES
24C2	DODGE SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
239	DORCHESTER SILT LOAM
386B	DOWNS SILT LOAM, 1 TO 5 PERCENT SLOPES
152	DRUMMER SILTY CLAY LOAM
536	DUMPS, MINE
198	ELBURN SILT LOAM
119E	ELCO SILT LOAM, 15 TO 20 PERCENT SLOPES
119D2	ELCO SILT LOAM, 8 TO 15 PERCENT SLOPES, ERODED
567B2	ELKHART SILTY CLAY LOAM, 2 TO 5 PERCENT SLOPES, ERODED

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

Publication Symbol	Approved Map Unit Name
567C2	ELKHART SILTY CLAY LOAM, 5 TO 10 PERCENT SLOPES, ERODED
280D2	FAYETTE SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED
280E	FAYETTE SILT LOAM, 15 TO 30 PERCENT SLOPES
280C2	FAYETTE SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
67	HARPSTER SILTY CLAY LOAM
344B	HARVARD SILT LOAM, 2 TO 5 PERCENT SLOPES
8G	HICKORY LOAM, 30 TO 50 PERCENT SLOPES
8E	HICKORY SILT LOAM, 15 TO 30 PERCENT SLOPES
8D	HICKORY SILT LOAM, 8 TO 15 PERCENT SLOPES
77	HUNTSVILLE SILT LOAM
43	IPAVA SILT LOAM
439B	JASPER LOAM, SANDY SUBSTRATUM, 1 TO 4 PERCENT SLOPES
2439B	JASPER, SANDY SUBSTRATUM-URBAN LAND COMPLEX, 1 TO 7 PERCENT SLOPES
28	JULES SILT LOAM
17	KEOMAH SILT LOAM
2017	KEOMAH-URBAN LAND COMPLEX
304B	LANDES LOAM, 1 TO 5 PERCENT SLOPES
451	LAWSON SILT LOAM
210	LENA MUCK
871B	LENZBURG SILT LOAM, 1 TO 7 PERCENT SLOPES, STONY
871G	LENZBURG SILT LOAM, 20 TO 60 PERCENT SLOPES, STONY
871D	LENZBURG SILT LOAM, 7 TO 20 PERCENT SLOPES, STONY
59	LISBON SILT LOAM
549E	MARSEILLES SILT LOAM, 15 TO 30 PERCENT SLOPES
549G	MARSEILLES SILT LOAM, 30 TO 60 PERCENT SLOPES

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

Publication Symbol	Approved Map Unit Name
415	ORION SILT LOAM
2802B	ORTHENTS-URBAN LAND COMPLEX, UNDULATING
406	PAXICO SILT LOAM, FREQUENTLY FLOODED, BRIEF DURATION
3406	PAXICO SILT LOAM, FREQUENTLY FLOODED, LONG DURATION
330	PEOTONE SILTY CLAY LOAM
865	PITS, GRAVEL
864	PITS, QUARRIES
54B	PLAINFIELD LOAMY SAND, 3 TO 7 PERCENT SLOPES
54D	PLAINFIELD LOAMY SAND, 7 TO 18 PERCENT SLOPES
199B	PLANO SILT LOAM, 1 TO 5 PERCENT SLOPES
148B	PROCTOR SILT LOAM, 2 TO 5 PERCENT SLOPES
148C2	PROCTOR SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
74	RADFORD SILT LOAM
872B	RAPATEE SILT LOAM, 1 TO 5 PERCENT SLOPES
872C	RAPATEE SILTY CLAY LOAM, 5 TO 12 PERCENT SLOPES
743B2	RIDOTT SILTY CLAY LOAM, 1 TO 5 PERCENT SLOPES, ERODED
279B	ROZETTA SILT LOAM, 1 TO 5 PERCENT SLOPES
279C2	ROZETTA SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
2279B	ROZETTA-URBAN LAND COMPLEX, 3 TO 8 PERCENT SLOPES
16	RUSHVILLE SILT LOAM
68	SABLE SILTY CLAY LOAM
92A	SARPY LOAMY SAND, 0 TO 3 PERCENT SLOPES
107	SAWMILL SILTY CLAY LOAM
145B2	SAYBROOK SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED
145C2	SAYBROOK SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED

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

Publication Symbol	Approved Map Unit Name
243B	ST. CHARLES SILT LOAM, 2 TO 5 PERCENT SLOPES
243C2	ST. CHARLES SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
132	STARKS SILT LOAM
224E	STRAWN SILT LOAM, 15 TO 30 PERCENT SLOPES
224D3	STRAWN SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED
857G	STRAWN-HENNEPIN LOAMS, 30 TO 60 PERCENT SLOPES
2224D	STRAWN-URBAN LAND COMPLEX, 8 TO 20 PERCENT SLOPES
19D3	SYLVAN SILTY CLAY LOAM, 10 TO 15 PERCENT SLOPES, SEVERELY ERODED
19E3	SYLVAN SILTY CLAY LOAM, 15 TO 20 PERCENT SLOPES, SEVERELY ERODED
19C3	SYLVAN SILTY CLAY LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED
36B	TAMA SILT LOAM, 1 TO 5 PERCENT SLOPES
36C2	TAMA SILT LOAM, 5 TO 10 PERCENT SLOPES, ERODED
2036B	TAMA-URBAN LAND COMPLEX, 1 TO 5 PERCENT SLOPES
404	TITUS SILTY CLAY LOAM
533	URBAN LAND
104	VIRGIL SILT LOAM
290A	WARSAW SILT LOAM, 0 TO 3 PERCENT SLOPES
2290A	WARSAW-URBAN LAND COMPLEX, 0 TO 3 PERCENT SLOPES
37B	WORTHEN SILT LOAM, 1 TO 5 PERCENT SLOPES

CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS

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

Sampled as	Pedon Sample No.	Publication Symbol	Approved Series Name or Classification
Elkhart	81IL-143-52	567B2	Elkart; pedon with piezometer shows water table for 30 consecutive days in spring between 42 and 72 inches.[2/]
Hennepin	82IL-143-28	857G	Hennepin[1/]
Plainfield	82IL-143-52	54B	Plainfield[2/]
Proctor	81IL-143-46	148B	Proctor; only one 6-inch-thick subhorizon of the Bt horizon was sampled and although it had slightly more clay than typical, we consider that the weighted average clay content of the upper 20 inches of the argillic horizon will fall well within the range of clay content defined for the Proctor series.
St. Charles	81IL-143-18	243B	St. Charles[1/]
Strawn	82IL-143-20	857G	Strawn taxadjunct; fine, montmorillonitic, mesic Typic Hapludalf.[2/]
Tama	81IL-143-47	36B	Tama; only one 4-inch-thick subhorizon of the Bt horizon was sampled and although it had slightly more clay than typical, we consider that the weighted average clay content of the upper 20 inches of the argillic horizon will fall well within the range of clay content for the Tama series.

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

Sampled as	Pedon Sample No.	Publication Symbol	Approved Series Name or Classification
Darwin	83IL-143-125	7070	Beaucoup.
Dickinson	82IL-143-58	87B	Dickinson[1/] On the coarse end of the range.
Harpster	83IL-143-69	67	Harpster. These soils contain higher amounts of calcium carbonate in the calcic horizon than defined for the Harpster series.
Landes	83IL-143-26	304B	Landes
Landes	81IL-143-71	304B	Landes
Landes	83IL-143-120	304B	Landes
Marseilles	83IL-143-123	549G	Marseilles[2/]
Plainfield	81IL-143-27	54B	Plainfield
Loran	82IL-143-11	743B2	Ridott
Darwin	83IL-143-124	404	Titus

3. Engineering Test Data from Illinois Department of Transportation with SCS-SOILS-10 forms.

Elkhart	81IL-143-52	567B2	Elkhart; pedon with piezometer shows water table for 30 consecutive days in spring between 42 and 72 inches.[2/]
Hennepin	82IL-143-28	857G	Hennepin[1/]
Plainfield	82IL-143-52	54B	Plainfield[2/]
Proctor	81IL-143-46	148B	Proctor
St. Charles	81IL-143-18	243B	St. Charles[1/]

Sampled as	Pedon Sample No.	Publication Symbol	Approved Series Name or Classification
Strawn	82IL-143-20	857G	Strawn taxadjunct; fine; montmorillonitic, mesic Typic Hapludalf.2/

4. Other data from Pedology Laboratory, University of Illinois and from NSSL, not to be published in the National Pedon Data File.

Lomax	82IL-143-60	266	Lomax taxadjunct; fine-loamy, mixed, mesic Cumulic Hapludoll. Mapped as inclusion in Disco.

1/ Typical pedon for series description in the manuscript.

2/Designated pedon used for map unit description in the manuscript.

edit

Notes to Accompany the
Classification and Correlation
of the Soils of
Peoria County, Illinois
by
J. Wiley Scott
and
Robert I. Turner

ASSUMPTION SERIES
These soils are taxadjuncts to the Assumption series because they have a thin dark colored surface layer. These soils are fine-silty, mixed, mesic Mollic Hapludalfs.

BEAUCOUP SERIES
We set up a new map unit on the unprotected side of the levee along the Illinois River as 3070 Beaucoup silty clay loam, frequently flooded.

Not needed

BRENTON SERIES
The Bt horizon formed in loess is slightly thinner than defined for the Brenton series.

CAMDEN SERIES
The thickness of the 2B horizon is slightly less than defined for the Camden series.

CATLIN SERIES
The soils in map unit 171C2 are taxadjuncts to the Catlin series because they have a thin dark colored surface layer. These soils are fine-silty, mixed, mesic Mollic Hapludalfs.

DICKINSON SERIES
Map units formerly named Disco sandy loam were combined with the Dickinson sandy loam because of similar morphology and similar management. On coarse end of range in texture for the Dickinson series.

ELKHART SERIES
These soils are taxadjuncts to the Elkart series because they have a thin dark colored surface layer. These soils are fine-silty, mixed, mesic Mollic Hapludalfs.

FAYETTE SERIES
The Bt horizon is slightly thicker than presently defined for the series and the solum is in the thickest part of the range.

HICKORY SERIES
These soils have higher reaction in the lower part of the Bt horizon than defined for the Hickory series.

KEOMAH SERIES
The soils in map unit 2017 have slightly higher color value in the substratum than defined for the Keomah series.

LAWSON SERIES
These soils have a thicker mollic epipedon than defined for the Lawson series but have a water table at shallower depths than the competing Kennebec series.

LENA SERIES
Organic soils are so unique in this survey area that a small acreage, all in one area, which is well known throughout the county is being correlated.

LENZBURG SERIES
These soils contain coarse fragments of gray siltstone and shale, and have a higher proportion of 2.5Y and 5Y hue in the matrix than typical of Lenzburg soils. These colors are not indicative of current drainage conditions.

MARSEILLES SERIES
The soils in map unit 549G have yellower hue in the upper part of the argillic horizon than defined for the Marseilles series.

PROCTOR SERIES
The soils in map unit 148C2 are taxadjuncts to the Proctor series because they have a thin dark colored surface layer. They are fine-silty, mixed, mesic Mollic Hapludalfs.

ROZETTA SERIES
The soils in map unit 279B have higher chroma in the E horizon, and the soils in map units 279B and 2279B are more acid in the C horizon than defined for the Rozetta series.

SAYBROOK SERIES
These soils are taxadjuncts to the Saybrook series because they have a thin dark colored surface layer. These soils are fine-silty, mixed, mesic Mollic Hapludalfs. Due to small acreage and lack of significant differences for use and management, the small acreage of La Rose silt loam combined with Saybrook silt loam.

ST. CHARLES SERIES
These soils are on the most acid end of the range in the lower part of the solum.

STRAWN SERIES
These soils do not have an eluvial horizon and go directly from the A horizon to the Bt horizon. That is uncharacteristic of Hapludalfs that are still in timber vegetation. The Strawn soils in map unit 857G are taxadjuncts to the Strawn series because they contain more clay in the control section than defined. They are fine, montmorillonitic, mesic Typic Hapludalfs.

SYLVAN SERIES
Depth to free carbonates is shallower than typical for the Sylvan series, but these are all severely eroded map units.

TAMA SERIES

The soils in map unit 36C2 are taxadjuncts to the Tama series because they have a thin dark colored surface layer. They are fine-silty, mixed, mesic Mollic Hapludalfs. Tama soils have Bt horizons slightly thicker than defined for the series and are at the shallowest depth to gray mottles for the moderately well drained phase of the series.

TITUS SERIES

These soils have slightly coarser texture and higher reaction in the C horizon than typical of the Titus series.

WARSAW SERIES

These soils have reaction in the Bt horizon higher than typical in upper part and lower than typical in the lower part than defined for the Warsaw series.

WORTHEN SERIES

These soils have a slightly thicker mollic epipedon than defined for the Worthen series.

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
*Assumption	Fine-silty, mixed, mesic Typic Argiudolls
Beaucoup	Fine-silty, mixed, mesic Fluvaquentic Haplaquolls
Brenton	Fine-silty, mixed, mesic Aquic Argiudolls
Camden	Fine-silty, mixed, mesic Typic Hapludalfs
Catlin	Fine-silty, mixed, mesic Typic Argiudolls
Chute	Mixed, mesic Typic Udipsamments
Clarksdale	Fine, montmorillonitic, mesic Udollic Ochraqualfs
Denny	Fine, montmorillonitic, mesic Mollic Albaqualfs
Dickinson	Coarse-loamy, mixed, mesic Typic Hapludolls
Dodge	Fine-silty, mixed, mesic Typic Hapludalfs
Dorchester	Fine-silty, mixed (calcareous), mesic Typic Udifluvents
Downs	Fine-silty, mixed, mesic Mollic Hapludalfs
Drummer	Fine-silty, mixed, mesic Typic Haplaquolls
Elburn	Fine-silty, mixed, mesic Aquic Argiudolls
Elco	Fine-silty, mixed, mesic Typic Hapludalfs
*Elkhart	Fine-silty, mixed, mesic Typic Argiudolls
Fayette	Fine-silty, mixed, mesic Typic Hapludalfs
Harpster	Fine-silty, mesic Typic Calciaquolls
Harvard	Fine-silty, mixed, mesic Mollic Hapludalfs
Hennepin	Fine-loamy, mixed, mesic Typic Eutrochrepts
Hickory	Fine-loamy, mixed, mesic Typic Hapludalfs
Huntsville	Fine-silty, mixed, mesic Cumulic Hapludolls
Ipava	Fine, montmorillonitic, mesic Aquic Argiudolls
Jasper	Fine-loamy, mixed, mesic Typic Argiudolls
Jules	Coarse-silty, mixed (calcareous), mesic Typic Udifluvents
Keomah	Fine, montmorillonitic, mesic Aeric Ochraqualfs
Landes	Coarse-loamy, mixed, mesic Fluventic Hapludolls
Lawson	Fine-silty, mixed, mesic Cumulic Hapludolls
Lena	Euic, mesic Typic Medisaprists
Lenzburg	Fine-loamy, mixed (calcareous), mesic Typic Udorthents
Lisbon	Fine-silty, mixed, mesic Aquic Argiudolls

CLASSIFICATION OF THE SOILS--Continued

Soil name	Family or higher taxonomic class
Marseilles	Fine-silty, mixed, mesic Typic Hapludalfs
Orion	Coarse-silty, mixed, nonacid, mesic Aquic Udifluvents
Orthents	Loamy, mixed, mesic Udorthents
Paxico	Coarse-silty, mixed (calcareous), mesic Aeric Fluvaquents
Peotone	Fine, montmorillonitic, mesic Cumulic Haplaquolls
Plainfield	Mixed, mesic Typic Udipsamments
Plano	Fine-silty, mixed, mesic Typic Argiudolls
Proctor	Fine-silty, mixed, mesic Typic Argiudolls
Radford	Fine-silty, mixed, mesic Fluvaquentic Hapludolls
Rapatee	Fine-silty, mixed, nonacid, mesic Typic Udorthents
Ridott	Fine-silty, mixed, mesic Mollic Ochraqualfs
Rozetta	Fine-silty, mixed, mesic Typic Hapludalfs
Rushville	Fine, montmorillonitic, mesic Typic Albaqualfs
Sable	Fine-silty, mixed, mesic Typic Haplaquolls
Sarpy	Mixed, mesic Typic Udipsamments
Sawmill	Fine-silty, mixed, mesic Cumulic Haplaquolls
*Saybrook	Fine-silty, mixed, mesic Typic Argiudolls
St. Charles	Fine-silty, mixed, mesic Typic Hapludalfs
Starks	Fine-silty, mixed, mesic Aeric Ochraqualfs
Strawn	Fine-loamy, mixed, mesic Typic Hapludalfs
Sylvan	Fine-silty, mixed, mesic Typic Hapludalfs
Tama	Fine-silty, mixed, mesic Typic Argiudolls
Titus	Fine, montmorillonitic, mesic Fluvaquentic Haplaquolls
Virgil	Fine-silty, mixed, mesic Udollic Ochraqualfs
Warsaw	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Typic Argiudolls
Worthen	Fine-silty, mixed, mesic Cumulic Hapludolls