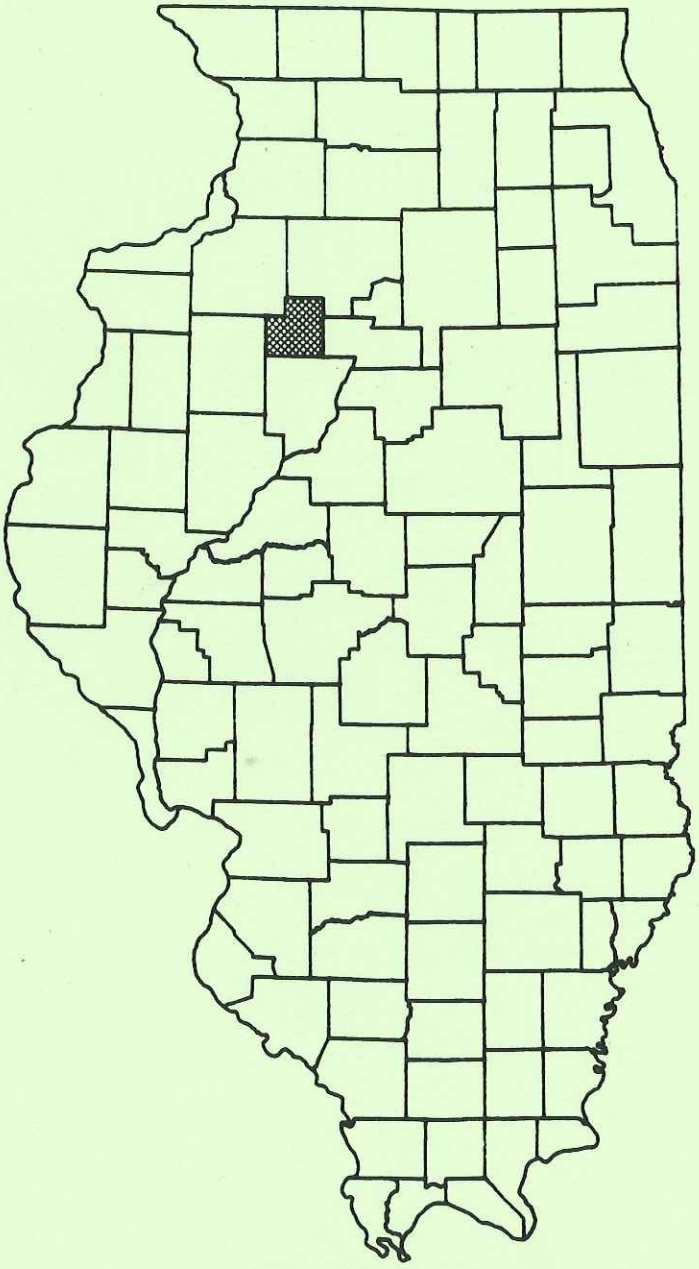
CLASSIFICATION AND CORRELATION

OF

THE SOILS OF

STARK COUNTY, ILLINOIS

MAY 1992



U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
CHAMPAIGN, ILLINOIS

CLASSIFICATION AND CORRELATION OF THE SOILS
OF
STARK COUNTY, ILLINOIS

CONTENTS

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
CHAMPAIGN, ILLINOIS 61820

CLASSIFICATION AND CORRELATION OF THE SOILS OF STARK COUNTY, ILLINOIS
May 1992

1. Introduction:

This correlation was prepared by John C. Doll, Assistant State Soil Scientist in May 1992. The final field review was conducted August 13-16, 1990 by John Doll, with Steve Elmer, Survey Leader; Steve Zwicker, Area Soil Scientist; and Larry Ratliff, NSSC Soil Scientist participating.

Decisions at the final field review are based upon pedon data, soil correlation samples, soil maps, field review reports, preliminary tables of interpretations, and the draft manuscript. A preliminary correlation was prepared in September 1990.

2. Head note 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. A capital letter following those 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.

3.

SOIL CORRELATION OF STARK COUNTY, ILLINOIS

MAY 1992

Field symbols	Field map unit name	Publication symbol	Approved map unit name
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded	8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded	8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
8F, 8E, 8E2, 8F2	Hickory silt loam, 18 to 30 percent slopes	8F	Hickory silt loam, 18 to 30 percent slopes
8G	Hickory loam, 30 to 50 percent slopes	8G	Hickory loam, 30 to 50 percent slopes
17A, 17, 16, 278	Keomah silt loam, 0 to 2 percent slopes	17A	Keomah silt loam, 0 to 2 percent slopes
19C3, 19C2	Sylvan silty clay loam, 5 to 10 percent slopes, severely eroded	19C3	Sylvan silty clay loam, 5 to 10 percent slopes, severely eroded
19D3, 567D3, 19D2, 280D3	Sylvan silty clay loam, 10 to 18 percent slopes, severely eroded	19D3	Sylvan silty clay loam, 10 to 18 percent slopes, severely eroded
19F, 19E, 19E2, 19F2	Sylvan silt loam, 18 to 30 percent slopes	19F	Sylvan silt loam, 18 to 30 percent slopes
27D3, 224D3, 27D2, 224D2	Miami clay loam, 10 to 18 percent slopes, severely eroded	27D3	Miami clay loam, 10 to 18 percent slopes, severely eroded
27F, 224F, 224E, 27E, 27E2, 27F2, 224E2, 224F2	Miami silt loam, 18 to 30 percent slopes	27F	Miami silt loam, 18 to 30 percent slopes
36A	Tama silt loam, 0 to 2 percent slopes	36A	Tama silt loam, 0 to 2 percent slopes

Field symbols	Field map unit name	Publication symbol	Approved map unit name
36B	Tama silt loam, 2 to 5 percent slopes	36B	Tama silt loam, 2 to 5 percent slopes
36B2	Tama silt loam, 2 to 5 percent slopes, eroded	36B2	Tama silt loam, 2 to 5 percent slopes, eroded
36C2	Tama silt loam, 5 to 10 percent slopes, eroded	36C2	Tama silt loam, 5 to 10 percent slopes, eroded
36C3	Tama silty clay loam, 5 to 10 percent slopes, severely eroded	36C3	Tama silty clay loam, 5 to 10 percent slopes, severely eroded
41A, 41	Muscatine silt loam, 0 to 2 percent slopes	41A	Muscatine silt loam, 0 to 2 percent slopes
43A, 43	Ipava silt loam, 0 to 2 percent slopes	43A	Ipava silt loam, 0 to 2 percent slopes
45	Denny silt loam	45	Denny silt loam
59A, 59	Lisbon silt loam, 0 to 2 percent slopes	59A	Lisbon silt loam, 0 to 2 percent slopes
60C2, 60C3, 27C2	La Rose silt loam, 5 to 10 percent slopes, eroded	60C2	La Rose silt loam, 5 to 10 percent slopes, eroded
67	Harpster silty clay loam	67	Harpster silty clay loam
68	Sable silty clay loam	68	Sable silty clay loam
68+	Sable silt loam, overwash	68+	Sable silt loam, overwash
119C2	Elco silt loam, 5 to 10 percent slopes, eroded	119C2	Elco silt loam, 5 to 10 percent slopes, eroded

Field symbols	Field map unit name	Publication symbol	Approved map unit name
119D2	Elco silt loam, 10 to 18 percent slopes, eroded	119D2	Elco silt loam, 10 to 18 percent slopes, eroded
119D3	Elco silty clay loam, 10 to 18 percent slopes, severely eroded	119D3	Elco silty clay loam, 10 to 18 percent slopes, severely eroded
119F2, 119E2, 119E, 119F	Elco silt loam, 18 to 25 percent slopes, eroded	119F2	Elco silt loam, 18 to 25 percent slopes, eroded
131D	Alvin sandy loam, 8 to 15 percent slopes	131D	Alvin sandy loam, 8 to 15 percent slopes
131F, 131E, 134E, 134F, 134E2, 134F2 131F2	Alvin sandy loam, 15 to 30 percent slopes	131F	Alvin sandy loam, 15 to 30 percent slopes
134C2, 290C2	Camden silt loam, 5 to 10 percent slopes, eroded	134C2	Camden silt loam, 5 to 10 percent slopes, eroded
134D2	Camden silt loam, 10 to 18 percent slopes, eroded	134D2	Camden silt loam, 10 to 18 percent slopes, eroded
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded	145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded
145C2	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, 199C2	Proctor silt loam, 5 to 10 percent slopes, eroded	148C2	Proctor silt loam, 5 to 10 percent slopes, eroded

Field symbols	Field map unit name	Publication symbol	Approved map unit name
152	Drummer silty clay loam	152	Drummer silty clay loam
154A, 154	Flanagan silt loam, 0 to 2 percent slopes	154A	Flanagan silt loam, 0 to 2 percent slopes
171B, 145B	Catlin silt loam, 2 to 5 percent slopes	171B	Catlin silt loam, 2 to 5 percent slopes
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded	171B2	Catlin silt loam, 2 to 5 percent slopes, eroded
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded	171C2	Catlin silt loam, 5 to 10 percent slopes, eroded
198A, 198, 149A	Elburn silt loam, 0 to 2 percent slopes	198A	Elburn silt loam, 0 to 2 percent slopes
199A	Plano silt loam, 0 to 2 percent slopes	199A	Plano silt loam, 0 to 2 percent slopes
199B	Plano silt loam, 2 to 5 percent slopes	199B	Plano silt loam, 2 to 5 percent slopes
199B2, 369B2	Plano silt loam, 2 to 5 percent slopes, eroded	199B2	Plano silt loam, 2 to 5 percent slopes, eroded
206	Thorp silt loam	206	Thorp silt loam
234A, 708	Sunbury silt loam, 0 to 2 percent slopes	234A	Sunbury silt loam, 0 to 2 percent slopes
243A	St. Charles silt loam, 0 to 2 percent slopes	243A	St. Charles silt loam, 0 to 2 percent slopes
243B, 134B	St. Charles silt loam, 2 to 5 percent slopes	243B	St. Charles silt loam, 2 to 5 percent slopes
257A, 257, 61	Clarksdale silt loam, 0 to 2 percent slopes	257A	Clarksdale silt loam, 0 to 2 percent slopes

Field symbols	Field map unit name	Publication symbol	Approved map unit name
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 18 percent slopes, eroded	259D2	Assumption silt loam, 10 to 18 percent slopes, eroded
259D3	Assumption silty clay loam, 10 to 18 percent slopes, severely eroded	259D3	Assumption silty clay loam, 10 to 18 percent slopes, severely eroded
279B, 280B	Rozetta silt loam, 2 to 5 percent slopes	279B	Rozetta silt loam, 2 to 5 percent slopes
279C2, 243C2, 233C2, 280C2	Rozetta silt loam, 5 to 10 percent slopes, eroded	279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded
279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded	279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded
280D2, 567D2	Fayette silt loam, 10 to 18 percent slopes, eroded	280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
319	Aurelius muck	319	Aurelius muck
323D3, 90D3, 327D3	Casco clay loam, 10 to 18 percent slopes, severely eroded	323D3	Casco clay loam, 10 to 18 percent slopes, severely eroded
379C2, 369C2	Dakota silt loam, 5 to 10 percent slopes, eroded	379C2	Dakota silt loam, 5 to 10 percent slopes, eroded
386B	Downs silt loam, 2 to 5 percent slopes	386B	Downs silt loam, 2 to 5 percent slopes
386C2	Downs silt loam, 5 to 10 percent slopes, eroded	386C2	Downs silt loam, 5 to 10 percent slopes, eroded

Field symbols	Field map unit name	Publication symbol	Approved map unit name
448C2, 294C2	Mona silt loam, 5 to 10 percent slopes, eroded	448C2	Mona silt loam, 5 to 10 percent slopes, eroded
448D3, 294D3	Mona clay loam, 10 to 18 percent slopes, severely eroded	448D3	Mona clay loam, 10 to 18 percent slopes, severely eroded
549C2	Marseilles silt loam, 5 to 10 peercent slopes, eroded	549C2	Marseilles silt loam, 5 to 10 peercent slopes, eroded
549D2, 549D3, 551D2, 551D3, 250D2	Marseilles silt loam, 10 to 18 percent slopes, eroded	549D2	Marseilles silt loam, 10 to 18 percent slopes, eroded
549F, 549E, 913F	Marseilles silt loam, 18 to 30 percent slopes	549F	Marseilles silt loam, 18 to 30 percent slopes
549G, 551G	Marseilles silt loam, 30 to 60 percent slopes	549G	Marseilles silt loam, 30 to 60 percent slopes
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded	567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
567C3	Elkhart silty clay loam, 5 to 10 percent slopes, severely eroded	567C3	Elkhart silty clay loam, 5 to 10 percent slopes, severely eroded
709A, 143A, 143	Osceola silt loam, 0 to 2 percent slopes	709A	Osceola silt loam, 0 to 2 percent slopes
753B, 710B, 127B, 199BT, 199BP, 259B, 716B2	Massbach silt loam, 2 to 5 percent slopes	753B	Massbach silt loam, 2 to 5 percent slopes
820G, 90G, 25G, 224G	Hennepin-Casco complex, 30 to 60 percent slopes	820G	Hennepin-Casco complex, 30 to 60 percent slopes

Field symbols	Field map unit name	Publication symbol	Approved map unit name
871B	Lenzburg silt loam, 1 to 7 percent slopes, stony	871B	Lenzburg silt loam, 1 to 7 percent slopes, stony
871D, 802E, 871C	Lenzburg silty clay loam, 7 to 20 percent slopes, stony	871D	Lenzburg silty clay loam, 7 to 20 percent slopes, stony
871G	Lenzburg silty clay loam, 20 to 70 percent slopes, stony	871G	Lenzburg silty clay loam, 20 to 70 percent slopes, stony
872B	Rapatee silt loam, 1 to 7 percent slopes	872B	Rapatee silt loam, 1 to 7 percent slopes
3107, 107	Sawmill silty clay loam, frequently flooded	3107	Sawmill silty clay loam, frequently flooded
3107+, 107+	Sawmill silt loam, overwash, frequently flooded	3107+	Sawmill silt loam, overwash, frequently flooded
3451, 451, 415	Lawson silt loam, frequently flooded	3451	Lawson silt loam, frequently flooded
8074, 74	Radford silt loam, occasionally flooded	8074	Radford silt loam, occasionally flooded
8076, 76	Otter silt loam, occasionally flooded	8076	Otter silt loam, occasionally flooded
8077, 77, 73, 8073	Huntsville silt loam, occasionally flooded	8077	Huntsville silt loam, occasionally flooded

4. **Series Established by This Correlation:** None

5. **Series Dropped or Made Inactive:** None

6. **Certification Statements:**

The state soil scientist certifies that:

A. Soil mapping was completed in June 1990.

B. This survey joins published soil surveys in Henry and Knox Counties. It also joins completed but unpublished soil surveys in Bureau and Peoria Counties. Joining has been checked and this survey joins with adjacent counties. Several mapping units were added to the Stark County legend and several changes have been made to maps in Bureau, Henry, and Knox Counties. These changes have been documented in the official file copy of the soil surveys in the respective field offices and are also on file in the state office.

C. Interpretations have been coordinated with adjoining survey areas. The manuscript agrees with the soil interpretations.

D. The location of typical pedons is correct and are within soil delineations using that name. The locations have been checked and verified by the survey leader.

E. All publication symbols will be those shown as approved in the conversion legend of the Correlation Memorandum.

F. All typifying pedons used for classification are accurately classified according to Soil Taxonomy.

7. **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 Stark County Soil and Water Conservation District. Financial assistance was made available by the Stark County Board and the Illinois Department of Agriculture. This soil survey is Illinois Agricultural Experiment Station Soil Report No. 158."

8. **Disposition of Field Sheets:**

The soil maps have been compiled at a scale of 1:15,840. 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. Copies made from the compiled maps are in the Stark County field office in Toulon and one copy is with the Area Soil Scientist in Rock Falls.

9. **Prior Soil Survey Publication:**

The first soil survey of Stark County was published in 1939. Eric Winters, Jr., R. S. Smith, and L. H. Smith. Stark County Soils, June, 1939. Soil Report No. 64. University of Illinois, Urbana. 26 p.

This survey updates the first survey and provides additional information and larger maps that show soils in greater detail.

10. **Instructions for Map Finishing:**

Map compilation has been completed by the acting survey leader. The compiled maps, all map compilation materials, and the field mpas are currently with the finishing unit at the Illinois state office. Map finishing will be done by the unit, using the soil identification legend and symbols legend in the final Correlation Memorandum.

Symbols for map finishing will be ordered after the Correlation Memorandum is approved.

Mapping unit 8F2 converts to 8F as shown in the conversion legend, except in areas along Knox and Henry Counties. In those areas 8F2 will convert to 119E2 for joining purposes.

SCS-SOILS-37A
3-75

CONVENTIONAL AND SPECIAL SYMBOLS LEGEND

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Soil Survey Area: Stark County
State: Illinois

Date: May 1992

DESCRIPTION	SYMBOL

CULTURAL FEATURES

BOUNDARIES

County or parish

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

ROAD EMBLEMS & DESIGNATIONS

State (52)

Other (398)

RAILROAD

DAMS

Medium or small (w)

PITS

Gravel pit

CULTURAL FEATURES (cont.)

MISCELLANEOUS CULTURAL FEATURES

Church

School

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) (w)

MISCELLANEOUS WATER FEATURES

Marsh or swamp

Wet spot

SPECIAL SYMBOLS FOR SOIL SURVEY

SOIL DELINEATIONS AND SOIL SYMBOLS

ESCARPMENTS 68 41A

Other than bedrock (points down slope)

SHORT STEEP SLOPE

SOIL SAMPLE SITE (normally not shown) (S)

MISCELLANEOUS

Gravelly spot

Dumps and other similar non soil areas

Rock outcrop (includes sandstone and shale)

Sandy spot

Severely eroded spot

RECOMMENDED AD HOC SOIL SYMBOLS

Muck spot

Calcareous spot

Denny soil spot

Misc. and ad hoc symbols represent areas less than 3 acres in size

Rules of Application for Use of Conventional and Special Map Symbols for Soil Surveys

1. All symbols are black. Symbols other than boundaries, roads, streams, drainage ends, and soil delineations (pen sizes listed below) will be placed on type overlays of project surveys with clear stripping film with adhesive backing (stickup). Pen size 00 is to be used for symbols on field sheets and for map compilation of other surveys with the following exceptions:

Pen size	Symbols
0	-- Trail and soil delineation.
1	-- Minor civil division, reservation, land grant and limit of soil survey.
2	-- National, state or province, county or parish boundaries, and center line of dams.
2.5	-- All roads except trails.

2. All the symbols shown on the legend will not be used in a single soil survey. Symbols actually used will be underlined in red during the initial field review. Changes in symbols selected must be approved by the state soil scientist.

3. Ad hoc symbols will be defined in the legend in terms of the specific kind and size of area represented.

4. All mapping unit boundaries are unbroken lines. Enclosed areas of water, double line streams and double line canals are mapping unit boundaries.

5. Single and double line roads, railroads, minor civil division lines, field sheet match lines or neatlines, soil survey area boundaries, single line canals, and levees are not mapping unit boundaries.

6. Areas represented by conventional and special symbols will not be included in the table "Approximate Acreage and Proportionate Extent of the Soils" in soil surveys. Acreage for enclosed areas of water more than 40 acres in size; and streams, sloughs, estuaries and canals more than one-eighth of a statute mile in width is given at the end of the table under "water".

7. The following rules apply to symbols for pits, marsh or swamp, and dumps and other similar nonsoil areas:

   a. Areas less than the minimum size delineation being used in the survey area are indicated only by symbols.

   b. Areas greater than the minimum size delineation being used in the survey area are delineated, classified, and correlated as mapping units.

8. Where a map scale change occurs in a soil survey area a neatline is used as a boundary. The map scale change is made a part of the joins note parallel to the neatline, e.g. Joins sheet 89 - 1:31680.

9. Proposed roads are not shown. Where the photo image shows a road under construction, represent it on the map as if it were constructed. Interchanges and access and egress ramps to limited access roads are not shown. "Other" roads are shown as necessary for proper orientation of the map.

10. Symbols for schools and churches are centered on the photo image and are not inked to scale.

11. Departure from these conventional and special symbols must be approved by the Deputy Administrator for Soil Survey.

12.

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
17A	Keomah silt loam, 0 to 2 percent slopes
36A	Tama silt loam, 0 to 2 percent slopes
36B	Tama silt loam, 2 to 5 percent slopes
36B2	Tama silt loam, 2 to 5 percent slopes, eroded
41A	Muscatine silt loam, 0 to 2 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes
45	Denny silt loam
59A	Lisbon silt loam, 0 to 2 percent slopes
67	Harpster silty clay loam (where drained)
68	Sable silty clay loam (where drained)
68+	Sable silt loam, overwash (where drained)
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded
148B	Proctor silt loam, 2 to 5 percent slopes
152	Drummer silty clay loam (where drained)
154A	Flanagan silt loam, 0 to 2 percent slopes
171B	Catlin silt loam, 2 to 5 percent slopes
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded
198A	Elburn silt loam, 0 to 2 percent slopes
199A	Plano silt loam, 0 to 2 percent slopes
199B	Plano silt loam, 2 to 5 percent slopes
199B2	Plano silt loam, 2 to 5 percent slopes, eroded
206	Thorp silt loam (where drained)
234A	Sunbury silt loam, 0 to 2 percent slopes
243A	St. Charles silt loam, 0 to 2 percent slopes
243B	St. Charles silt loam, 2 to 5 percent slopes
257A	Clarksdale silt loam, 0 to 2 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes
386B	Downs silt loam, 2 to 5 percent slopes
709A	Osceola silt loam, 0 to 2 percent slopes
753B	Massbach silt loam, 2 to 5 percent slopes
872B	Rapatee silt loam, 1 to 7 percent slopes
3107	Sawmill silty clay loam, frequently flooded (where drained and either protected from flooding or not frequently flooded during the growing season)
3107+	Sawmill silt loam, overwash, frequently flooded (where drained and either protected from flooding or not frequently flooded during the growing season)
3451	Lawson silt loam, frequently flooded
8074	Radford silt loam, occasionally flooded
8076	Otter silt loam, occasionally flooded (where drained)
8077	Huntsville silt loam, occasionally flooded

13.

APPROVED: May 1992

John C. Hall

Robert L. McLeese (acting for)
State Soil Scientist
Illinois State Office

CONVERSION LEGEND FOR STARK COUNTY, ILLINOIS

Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol
		60C2	60C2	149A	198A	280C2	279C2
8D2	8D2	60C3	60C2	152	152	280D2	280D2
8D3	8D3	61	257A	154	154A	280D3	19D3
8E	8F	67	67	154A	154A	290C2	134C2
8E2	8F	68	68	171B	171B	294C2	448C2
8F	8F	68+	68+	171B2	171B2	294D3	448D3
8F2	8F	73	8077	171C2	171C2	319	319
		74	8074	198	198A	323D3	323D3
8G	8G	76	8076	198A	198A	327D3	323D3
16	17A	77	8077	199A	199A	369C2	379C2
17	17A	90D3	323D3	199B	199B	379C2	379C2
17A	17A	90G	820G	199B2	199B2	386B	386B
19C2	19C3	107	3107	199BP	753B	386C2	386C2
19C3	19C3	107+	3107+	199BT	753B	415	3451
19D2	19D3	119C2	119C2	199C2	148C2	448C2	448C2
19D3	19D3	119D2	119D2	206	206	448D3	448D3
19E	19F	119D3	119D3	224D2	27D3	451	3451
19E2	19F	119E	119F2	224D3	27D3	549C2	549C2
19F	19F	119E2	119F2	224E	27F	549D2	549D2
19F2	19F	119F	119F2	224E2	27F	549D3	549D2
25G	820G	119F2	119F2	224F	27F	549E	549F
27C2	60C2	127B	753B	224F2	27F	549F	549F
27D2	27D3	131D	131D	224G	820G	549G	549G
27D3	27D3	131E	131F	233C2	279C2	551D2	549D2
27E	27F	131F	131F	234A	234A	551D3	549D2
27E2	27F	131F2	131F	243A	243A	551G	549G
27F	27F	134B	243B	243B	243B	567C2	567C2
27F2	27F	134C2	134C2	243C2	279C2	567C3	567C3
36A	36A	134D2	134D2	250D2	549D2	567D2	280D2
36B	36B	134E	131F	257	257A	567D3	19D3
36B2	36B2	134E2	131F	257A	257A	708	234A
36C2	36C2	134F	131F	259B	753B	709A	709A
36C3	36C3	134F2	131F	259C2	259C2	710B	753B
41	41A	143	709A	259D2	259D2	716B2	753B
41A	41A	143A	709A	259D3	259D3	753B	753B
43	43A	145B	171B	278	17A	802E	871D
43A	43A	145B2	145B2	279B	279B	820G	820G
45	45	145C2	145C2	279C2	279C2	871B	871B
59	59A	148B	148B	279C3	279C3	871C	871D
59A	59A	148C2	148C2	280B	279B	871D	871D

STARK COUNTY, ILLINOIS --Continued

Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol
871G	871G	3451	3451				
872B	872B	8073	8077				
913F	549F	8074	8074				
3107	3107	8076	8076				
3107+	3107+	8077	8077				

STARK COUNTY SOIL IDENTIFICATION LEGEND
ACCORDING TO ALPHABETICAL SEQUENCE

Publication symbol	Approved map unit name
131D	Alvin sandy loam, 8 to 15 percent slopes
131F	Alvin sandy loam, 15 to 30 percent slopes
259D2	Assumption silt loam, 10 to 18 percent slopes, eroded
259C2	Assumption silt loam, 5 to 10 percent slopes, eroded
259D3	Assumption silty clay loam, 10 to 18 percent slopes, severely eroded
319	Aurelius muck
134C2	Camden silt loam, 5 to 10 percent slopes, eroded
134D2	Camden silt loam, 10 to 18 percent slopes, eroded
323D3	Casco clay loam, 10 to 18 percent slopes, severely eroded
171B	Catlin silt loam, 2 to 5 percent slopes
171B2	Catlin silt loam, 2 to 5 percent slopes, eroded
171C2	Catlin silt loam, 5 to 10 percent slopes, eroded
257A	Clarksdale silt loam, 0 to 2 percent slopes
379C2	Dakota silt loam, 5 to 10 percent slopes, eroded
45	Denny silt loam
386B	Downs silt loam, 2 to 5 percent slopes
386C2	Downs silt loam, 5 to 10 percent slopes, eroded
152	Drummer silty clay loam
198A	Elburn silt loam, 0 to 2 percent slopes
119C2	Elco silt loam, 5 to 10 percent slopes, eroded
119D2	Elco silt loam, 10 to 18 percent slopes, eroded
119F2	Elco silt loam, 18 to 25 percent slopes, eroded
119D3	Elco silty clay loam, 10 to 18 percent slopes, severely eroded
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
567C3	Elkhart silty clay loam, 5 to 10 percent slopes, severely eroded
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
154A	Flanagan silt loam, 0 to 2 percent slopes
67	Harpster silty clay loam

Publication symbol	Approved map unit name
820G	Hennepin-Casco complex, 30 to 60 percent slopes
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
8G	Hickory loam, 30 to 50 percent slopes
8D2	Hickory silt loam, 10 to 18 percent slopes, eroded
8F	Hickory silt loam, 18 to 30 percent slopes
8077	Huntsville silt loam, occasionally flooded
43A	Ipava silt loam, 0 to 2 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes
60C2	La Rose silt loam, 5 to 10 percent slopes, eroded
3451	Lawson silt loam, frequently flooded
871B	Lenzburg silt loam, 1 to 7 percent slopes, stony
871D	Lenzburg silty clay loam, 7 to 20 percent slopes, stony
871G	Lenzburg silty clay loam, 20 to 70 percent slopes, stony
59A	Lisbon silt loam, 0 to 2 percent slopes
549C2	Marseilles silt loam, 5 to 10 peercent slopes, eroded
549D2	Marseilles silt loam, 10 to 18 percent slopes, eroded
549F	Marseilles silt loam, 18 to 30 percent slopes
549G	Marseilles silt loam, 30 to 60 percent slopes
753B	Massbach silt loam, 2 to 5 percent slopes
27D3	Miami clay loam, 10 to 18 percent slopes, severely eroded
27F	Miami silt loam, 18 to 30 percent slopes
448D3	Mona clay loam, 10 to 18 percent slopes, severely eroded
448C2	Mona silt loam, 5 to 10 percent slopes, eroded
41A	Muscatine silt loam, 0 to 2 percent slopes
709A	Osceola silt loam, 0 to 2 percent slopes
8076	Otter silt loam, occasionally flooded
199A	Plano silt loam, 0 to 2 percent slopes
199B	Plano silt loam, 2 to 5 percent slopes
199B2	Plano silt loam, 2 to 5 percent slopes, eroded
148B	Proctor silt loam, 2 to 5 percent slopes
148C2	Proctor silt loam, 5 to 10 percent slopes, eroded

Publication symbol	Approved map unit name
8074	Radford silt loam, occasionally flooded
872B	Rapatee silt loam, 1 to 7 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes
279C2	Rozetta silt loam, 5 to 10 percent slopes, eroded
279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded
68+	Sable silt loam, overwash
68	Sable silty clay loam
3107+	Sawmill silt loam, overwash, frequently flooded
3107	Sawmill silty clay loam, frequently flooded
145B2	Saybrook silt loam, 2 to 5 percent slopes, eroded
145C2	Saybrook silt loam, 5 to 10 percent slopes, eroded
243A	St. Charles silt loam, 0 to 2 percent slopes
243B	St. Charles silt loam, 2 to 5 percent slopes
234A	Sunbury silt loam, 0 to 2 percent slopes
19F	Sylvan silt loam, 18 to 30 percent slopes
19C3	Sylvan silty clay loam, 5 to 10 percent slopes, severely eroded
19D3	Sylvan silty clay loam, 10 to 18 percent slopes, severely eroded
36A	Tama silt loam, 0 to 2 percent slopes
36B	Tama silt loam, 2 to 5 percent slopes
36B2	Tama silt loam, 2 to 5 percent slopes, eroded
36C2	Tama silt loam, 5 to 10 percent slopes, eroded
36C3	Tama silty clay loam, 5 to 10 percent slopes, severely eroded
206	Thorp silt loam

CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS

1. Laboratory data from NSSL with completed SCS-SOILS-8 forms.

Sampled as	Pedon Sample No.	Publication Symbol	Approved Series Name or Classification
Clarksdale, shale substratum	90IL-175-27	709A	Osceola, OSED typical pedon
Clarksdale, till substratum	90IL-175-25	234A	Sunbury
Clarksdale, till substratum	90IL-175-26	234A	Sunbury
Ipava, till substratum	90IL-175-28	154A	Flanagan

Notes to Accompany the
Classification and Correlation
of the Soils of Stark County, Illinois
by John C. Doll and Larry F. Ratliff

(T -- indicates typical pedon for the series in Stark County.)

Alvin

T	131D	89IL-175-53
	131F	90IL-175-34

Assumption:

T	259C2	87IL-175-21
	259D2	90IL-175-50
	259D3	90IL-175-14

These soils have a thinner dark surface layer than defined for the Assumption series. The **taxadjuncts** classify as **fine-silty, mixed, mesic Mollic Hapludalfs.**

Aurelius

T	319	88IL-175-38

Camden:

T	134C2	89IL-175-39
	134D2	90IL-175-44

Casco

T	323D3	90IL-175-17
	820G	90IL-175-05

Catlin

T	171B	89IL-175-06
	171B2	90IL-175-08
	171C2	90IL-175-09

These soils in mapping units **171B2 and 171C2** have a thinner dark surface layer than defined for the Catlin series. The **taxadjuncts** classifie as **fine-silty, mixed, mesic Mollic Hapludalfs.**

Clarksdale

T	257A	89IL-175-04

Dakota:

T	379C2	89IL-175-22

These soils have a thinner dark surface layer than defined for the Dakota series. The **taxadjunct** classifies as **fine-silty, mixed, mesic Mollic Hapludalfs.**

Denny

T	45	87IL-175-17

Downs

T	386B	89IL-175-10
	386C2	90IL-175-22

These soils mapping unit 386B have chroma 2 mottles slightly higher in the profile than defined for the series, however, they are not considered to be taxadjuncts.

Drummer

T	152	88IL-175-12

Elburn

T	198A	87IL-175-01

Elco

	119C2	89IL-175-31
	119D2	87IL-175-03
	119D3	88IL-175-14
T	119F2	87IL-175-07

Elkhart:

T	567C2	88IL-175-25
	567C3	87IL-175-10

These soils have a thinner dark surface layer than defined for the Elkhart series. The **taxadjunct** classifies **fine-silty, mixed, mesic Mollic Hapludalfs.**

Fayette

T	280D2	88IL-175-13

Flanagan:

T	154A	90IL-175-07

These soils average less than 35 percent clay in the family control section. The **taxadjunct** classifies as **fine-silty, mixed, mesic Aquic Argiudolls.**

Harpster

T	67	90IL-175-25

Hennepin

T	820G	90IL-175-06
		90IL-175-05

Hickory:

	8D2	90IL-175-46
	8D3	88IL-175-36
T	8F	88IL-175-27
	8G	89IL-175-54

8F joins 8E in Peoria County on the same landform segment; both map units will correlate to same map unit of mlra legend. One unit in Knox Co (8E2) will be changed in record copy to 119E2 which will join 119F2 in Stark Co.; same landform segment; will correlate to same map unit of mlra legend.

Huntsville

T	8077	89IL-175-02

Ipava
T 43A 88IL-175-10

Keomah
T 17 89IL-175-12

La Rose:
T 60C2 89IL-175-09

Lawson
T 3451 88IL-175-05

Lenzburg
871B 88IL-175-43
T 871D 88IL-175-42
871G 88IL-175-47

Lisbon:
T 59A 90IL-175-31

Marseilles
549C2 89IL-175-27
549D2 88IL-175-41
T 549F 88IL-175-61
549G 90IL-175-23

Massbach
T 753B 89IL-175-19
These soils are minor in Stark County. They have in most areas thin "smear" of outwash above the Cr horizon. Tables will be adjusted; neither SIR nor OSD will be changed.

Miami:
27D3 90IL-175-04
T 27F 90IL-175-16
These soils in map unit 27D3 have sola thinner (attributed to erosion) than defined for the series but are not considered to be taxadjuncts

Mona:
T 448C2 90IL-175-42
448D3 89IL-175-11
These soils have thinner dark surface layers than defined for the Mona series. The **taxadjuncts** classify as **fine-loamy, mixed, mesic Mollic Hapludalfs.**

Muscatine:
T 41A 88IL-175-21
These soils have an A to B clay increase greater than defined for the series and they average less than 35 percent clay in the textural control section. The taxadjuncts classify as **fine-silty,** mixed, mesic Aquic **Argiudolls.**

Osceola:
T 709A 90IL-175-27
This pedon is the OSD series pedon. The series was established with the ammendment to the Peoria County correlation.

Otter
T 8076 90IL-175-43

Plano
T 199A 87IL-175-02
199B 89IL-175-15
199B2 89IL-175-36
These soils in mapping unit **199B2** have a thinner dark surface layer than defined for the Plano series. The **taxadjunct** classifies as **fine-silty, mixed, mesic Mollic Hapludalfs.**

Proctor
T 148B 90IL-175-32
148C2 90IL-175-36
These soils in mapping unit **148C2** have a thinner dark surface layer than defined for the Proctor series. The **taxadjunct** classifies as **fine-silty, mixed, mesic Mollic Hapludalfs.**

Radford
T 8074 88IL-175-34

Rapatee
T 872B 89IL-175-43

Rozetta
T 279B 87IL-175-08
279C2 90IL-175-13
279C3 90IL-175-12
These soils in mapping unit 279C2 have sola on the thinnest end of series range and CaCO3's are within 60 inches in many places. Soils are quite similar to Sylvan soils, but mapping unit is needed for joining.

Sable
T 68 87IL-175-11
68+ 90IL-175-10

Sawmill
3107
T 3107+ 88IL-175-33
The typical pedon in Peoria Co. is used to represent the Stark County soils in mapping unit 3107. The mapping unit was added to the Stark Co. legend for joining.

Saybrook:
T 145B2 89IL-175-08
145C2 88IL-175-46
These soils have a thinner dark surface layer than defined for the Saybrook series. The **taxadjunct** classifies as **fine-silty, mixed, mesic Mollic Hapludalfs.**

St. Charles

	243A	89IL-175-30
T	243B	88IL-175-09

Sunbury:

T	234A	88IL-175-30

These soils have thicker sola and greater depth to CaCO3 than defined for the series. These soils are not considered to be taxadjunct. These soil were referred to during the course of the survey as "Clarksdale, till substratum".

Sylvan:

	19C3	88IL-175-26
	19D3	89IL-175-03
T	19F	88IL-175-40

Tama

T	36A	90IL-175-38
	36B	88IL-175-15
	36B2	90IL-175-39
	36C2	90IL-175-37
	36C3	89IL-175-59

These soils in mapping units **36B2, 36C2, and 36C3** have dark surface layers thinner than defined for the Tama seris. The **taxadjuncts** classify as **fine-silty, mixed, mesic Mollic Hapludalfs.**

Thorp

T	206	90IL-175-03

CLASSIFICATION OF SOILS

(An asterisk (*) in the first column indicates that all mapping units of the taxa in Stark County are taxadjuncts to the series. A pound sign (#) indicates that only some of the mapping units of the taxa in Stark County are taxadjuncts to the series. In either case, 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
Aurelius---	Fine-silty, carbonatic, mesic Histic Humaquepts
Camden-----	Fine-silty, mixed, mesic Typic Hapludalfs
Casco------	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Typic Hapludalfs
#Catlin-----	Fine-silty, mixed, mesic Typic Argiudolls
Clarksdale-	Fine, montmorillonitic, mesic Udollic Ochraqualfs
*Dakota-----	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Typic Argiudolls
Denny------	Fine, montmorillonitic, mesic Mollic Albaqualfs
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
*Flanagan---	Fine, montmorillonitic, mesic Aquic Argiudolls
Harpster---	Fine-silty, mesic Typic Calciaquolls
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
Keomah-----	Fine, montmorillonitic, mesic Aeric Ochraqualfs
La Rose----	Fine-loamy, mixed, mesic Typic Argiudolls
Lawson-----	Fine-silty, mixed, mesic Cumulic Hapludolls
Lenzburg---	Fine-loamy, mixed (calcareous), mesic Typic Udorthents
Lisbon-----	Fine-silty, mixed, mesic Aquic Argiudolls
Marseilles-	Fine-silty, mixed, mesic Typic Hapludalfs
Massbach---	Fine-silty, mixed, mesic Mollic Hapludalfs
Miami------	Fine-loamy, mixed, mesic Typic Hapludalfs
*Mona-------	Fine-loamy, mixed, mesic Typic Argiudolls
*Muscatine--	Fine-silty, mixed, mesic Aquic Hapludolls
Osceola----	Fine, mixed, mesic Udollic Ochraqualfs
Otter------	Fine-silty, mixed, mesic Cumulic Haplaquolls
#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
Rozetta----	Fine-silty, mixed, mesic Typic Hapludalfs
Sable------	Fine-silty, mixed, mesic Typic Haplaquolls
Sawmill----	Fine-silty, mixed, mesic Cumulic Haplaquolls
*Saybrook---	Fine-silty, mixed, mesic Typic Argiudolls
St. Charles	Fine-silty, mixed, mesic Typic Hapludalfs

CLASSIFICATION - continued

Soil name	Family or higher taxonomic class
Sunbury----	Fine, montmorillonitic, mesic Aquollic Hapludalfs
Sylvan-----	Fine-silty, mixed, mesic Typic Hapludalfs
#Tama-------	Fine-silty, mixed, mesic Typic Argiudolls
Thorp------	Fine-silty, mixed, mesic Argiaquic Argialbolls