United States
Department of
Agriculture

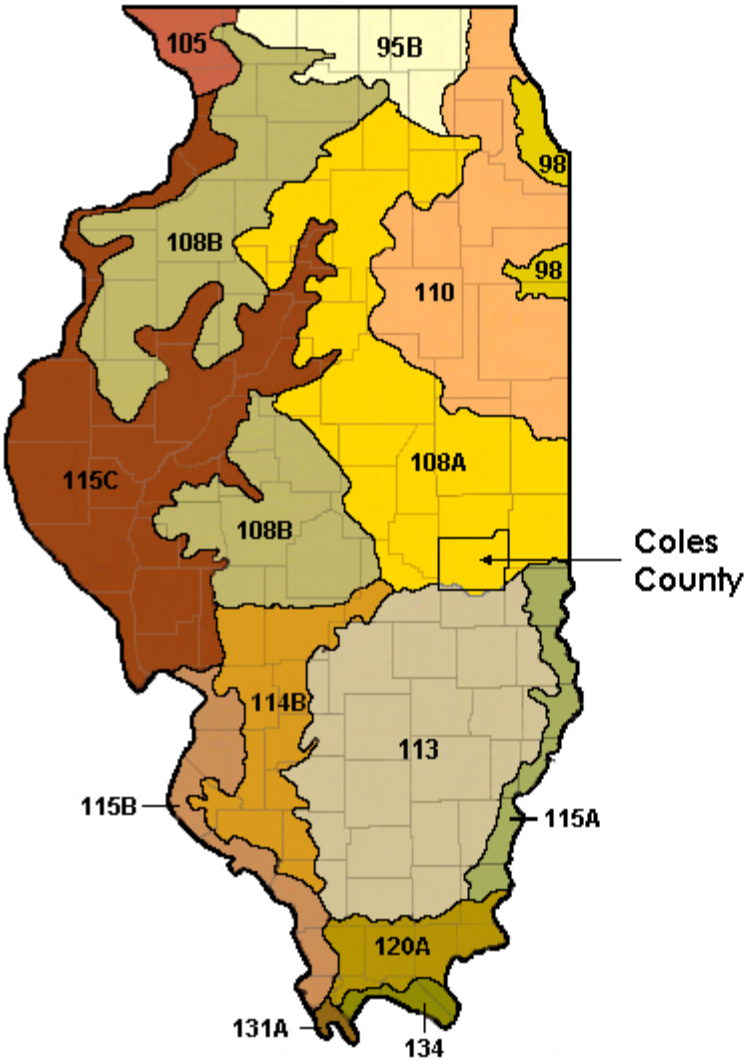
**Natural Resources
Conservation Service**

**East Central Glaciated
Regional MLRA
Soil Survey Office
Indianapolis, IN**

# Classification and Correlation of Soils in Coles County, Illinois

## A Subset of MLRA 108A and 113

**September 2005**




LEGEND

95B - Southern Wisconsin and Northern Illinois Drift Plain

98 - Southern Michigan and Northern Indiana Drift Plain

105 - Northern Mississippi Valley Loess Hills

108A and B - Illinois and Iowa Deep Loess and Drift

110 - Northern Illinois and Indiana Heavy Till Plain

113 - Central Claypan Area

114B - Southern Illinois and Indiana Thin Loess and Till Plain

115A, B, and C - Central Mississippi Valley Wooded Slopes

120A - Kentucky and Indiana Sandstone and Shale Hills and Valleys

131A - Southern Mississippi Valley Alluvium

134 - Southern Mississippi Valley Silty Uplands

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# UNITED STATES DEPARTMENT OF AGRICULTURE
# NATURAL RESOURCES CONSERVATION SERVICE

# CLASSIFICATION AND CORRELATION OF THE SOILS OF COLES COUNTY, ILLINOIS

## A SUBSET OF MLRA 108A and MLRA 113

## September 2005

This correlation amendment was prepared by Chris Cochran, MLRA Soil Scientist, Charleston, IL, John C. Doll, Soil Scientist, Champaign, IL, and Asghar A. Chowdhery, Soil Data Quality Specialist (SDQS) MLRA Region 11 team, Indianapolis, IN. It was prepared as part of the update of the Soil Survey of Coles County, a subset of MLRA's 108A and 113. It is based on transect data, pedon descriptions, laboratory data, field soil maps, join statements, and descriptive legend. Sources used in the literature review include "Classification and Correlation of the Soils of Coles County, Illinois" –April 1987, and the published "Soil Survey of Coles County, Illinois" – April 1993.

## HEADNOTE FOR DETAILED SOIL SURVEY LEGEND

This update of Coles County, Illinois is an update subset of the Soil Survey of Major Land Resource Areas (MLRA's) 108A and 113. Map unit names, the map unit symbols, and special and conventional symbols are consistent between subsets that are being updated. Map unit symbols consist of a combination of numbers and letters. The initial numbers represent the kind of soil. A capital letter following those numbers indicates the class of slope. A final number of 2 following the slope letter indicate that the soil is moderately eroded, and a number 3 indicates that it is severely eroded. Absence of a number following the slope class indicates that the soil is slightly eroded or non-eroded. Map unit symbols without a following capital letter are for miscellaneous units.

**Series established by this correlation:** Oskaloosa

**Series or components added to the previous correlated legend (April 1987):** Bluford, Brouillett, Cisne, Ebbert, Hartsburg, Hoyleton, Milford, Senachwine, Shiloh, and Somonauk

**Series dropped from the previously correlated legend (April 1987):** Miami and Pella

**Series Made Inactive:** Oskaloosa

**Verification of exact cooperator names:** For the front cover and half-title page:

United States Department of Agriculture
Natural Resources Conservation Service
in Cooperation with
Illinois Agricultural Experiment Station

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

The last soil survey of Coles County was completed in 1986 and was published by the United States Department of Agriculture, Natural Resources Conservation Service in 1993. It is Illinois Agricultural Experiment Station Soil Report No. 138, “Soil Survey of Coles County, Illinois". Reference to the prior soil survey will be included in the literature citation of the manuscript. This update replaces the 1993 soil survey and provides additional data, updated soil interpretations, and digital soil maps at a 1:12,000 scale on an orthophoto base.

**Join Statement:** Coles County, which was published in 1993, joins six modern soil surveys. These are Clark, Cumberland, Douglas, Edgar, Moultrie, and Shelby Counties in Illinois. Clark County to the southeast was published in 1979. Cumberland County to the south was published in 2002. Douglas County to the north was published in 1971. Edgar County to the northeast is an update county and was published in 2002. Moultrie County to the northwest is an update county and was published in 2004. Shelby County to the southwest was published in 1996. An exact join exists with Douglas and Moultrie Counties. An acceptable join exists with the remaining adjoining counties. An exact join will be completed with these counties when they are updated to the MLRA legend.

**Disposition of field sheets:** The publication soil map materials used for Soil Report No. 138 were compiled using “Ortho-Mapper” software to match orthophoto quarter quads at a scale of 1:12,000. The quarter quads were vectorized and labeled in ArcGIS, and delivered to the Kansas Digitizing Center. The final SSURGO certified product will be available at the Soil Datamart, the NRCS state office, and will be provided to the Coles County Board as part of the cost share cooperative agreement.

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

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

NRCS-SOI-37a
REVISED MAY 2001

Soil Survey Area: Coles County

State: Illinois

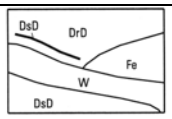
**FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY**

U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Date: August, 2005

**SOIL SURVEY FEATURES**

| | |
|---|---|
| SOIL DELINEATIONS AND LABELS |   |

**STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES**

| | |
|---|---|
| Bedrock escarpment | |
| | |
| Short steep slope | ..... |
| Gravel pit | |
| Rock outcrop | |
| Sandy spot | |
| | |
| Wet spot | |

**AD HOC FEATURES:** NONE

| | | |
|---|---|---|
| | | |

**CULTURAL FEATURES (Optional)**

| | |
|---|---|
| National, state or providence | |
| County or parish | |
| Field sheet matchline and neatline | |
| Public Land Survey System Section Boundary | |
| Public Land Survey System Section Corner Tics. | |

**TRANSPORTATION:** NONE

**ROAD EMBLEMS**

| | |
|---|---|
| State | |
| Federal | |
| Interstate | |

**LOCATED OBJECTS:**

| | | |
|---|---|---|
| **Oil Well** | **GWEL** | |

**HYDROGRAPHIC FEATURES (Optional):** NONE

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

| LABEL | NAME | DESCRIPTION OF FEATURE |
|---|---|---|
| ESB | Escarpment, bedrock | A relatively continuous and steep slope or cliff, which generally is produced by erosion or faulting breaking the general continuity of more gently sloping land surfaces. Exposed material is hard or soft bedrock. |
| GPI | Gravel pit | An open excavation from which soil and the underlying material have been removed, and used without crushing, as a source of sand or gravel. Typically ½ to 2 ½ acres. |
| GWEL | Oil well or tank | A spot where an oil well or tank exists or existed. These areas typically have soil that has been affected by brine or oil spills. Typically less than ¼ acre. |
| ROC | Rock outcrop | An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map unit is shallow over bedrock. Typically ½ to 2 ½ acres. |
| SAN | Sandy spot | A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 1/2 to 3 acres. |
| SLP | Short, steep slope | Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit. |
| WET | Wet Spot | Somewhat poorly drained to very poorly drained area that is at least 2 drainage classes wetter than the named soils in the surrounding map unit. Typically ½ to 2 ½ acres. |

Soil Mapunit Symbol Conversion Legend
Coles County, Illinois

| Field symbols | Publi-cation symbol |
|---|---|
| | |
| 27C2 | 618C2 |
| 27C3 | 618C3 |
| 27D2 | 618D2 |
| 27D3 | 618D3 |
| 27E | 618F |
| | |
| 27G | 618G |
| 56B | 56B |
| 56B2 | 56B2 |
| 73 | 3073A |
| 107 | 3107A |
| | |
| 132A | 132A |
| 132A | 7132A |
| 132A | 13A |
| 132B | 668B2 |
| 132B | 13B |
| | |
| 132B | 7373B |
| 136 | 136A |
| 136 | 2A |
| 134B | 668B2 |
| 134B | 7373B |
| 134B | 13B |
| 148B | 148B |
| 148B | 7373B |
| 148B | 3A |
| 149 | 149A |

| Field symbols | Publi-cation symbol |
|---|---|
| | |
| 149 | 3284A |
| | |
| 149 | 3A |
| 152 | 152A |
| 152 | 722A |
| 152 | 138A |
| 153 | 244A |
| | |
| 154 | 154A |
| 206 | 206A |
| 206 | 48A |
| 206 | 7132A |
| 219 | 219A |
| | |
| 219 | 7132A |
| 219 | 3A |
| 226D | 3226A |
| 284D2 | 3284A |
| 291B | 291B |
| | |
| 291B | 496A |
| 304 | 3304A |
| 304 | 3450A |
| 322B | 322B |
| 322B | 496A |
| 322C2 | 322C2 |
| | |
| 330 | 330A |

| Field symbols | Publi-cation symbol |
|---|---|
| | |
| 330 | 138A |
| 348B | 348B |
| 353 | 353A |
| | |
| 424 | 3424A |
| 451 | 3451A |
| 481 | 481A |
| 496 | 496A |
| 533 | 533 |
| | |
| 570B | 570B |
| 570B | 7570B |
| 570C2 | 570C2 |
| 570C2 | 7570B |
| 864 | 864 |
| | |
| 871B | 871B |
| 871D | 871D |
| 2152 | 152A |
| 2291B | 291B |
| 2481 | 481A |
| | |
| 2496 | 496A |
| M-W | M-W |
| W | W |
| | |

830 and 865 were not previously mapped. 830 Landfill, did not exist when previous mapping was completed. The area mapped as 830 is a new operation. Areas of 865 Pits, gravel, were identified with a spot symbol in the previous soil survey.

## Soil Identification Legend According to Alphabetical Sequence

| Map symbol | Approved map unit name |
|---|---|
| 13A | Bluford silt loam, 0 to 2 percent slopes |
| 13B | Bluford silt loam, 2 to 5 percent slopes |
| 149A | Brenton silt loam, 0 to 2 percent slopes |
| 136A | Brooklyn silt loam, 0 to 2 percent slopes |
| 3450A | Brouillett silt loam, 0 to 2 percent slopes, frequently flooded |
| 7373B | Camden silt loam, sandy substratum, 2 to 5 percent slopes, rarely flooded |
| 2A | Cisne silt loam, 0 to 2 percent slopes |
| 56B | Dana silt loam, 2 to 5 percent slopes |
| 56B2 | Dana silt loam, 2 to 5 percent slopes, eroded |
| 152A | Drummer silty clay loam, 0 to 2 percent slopes |
| 722A | Drummer-Milford silty clay loams, 0 to 2 percent slopes |
| 48A | Ebbert silt loam, 0 to 2 percent slopes |
| 496A | Fincastle silt loam, 0 to 2 percent slopes |
| 154A | Flanagan silt loam, 0 to 2 percent slopes |
| 244A | Hartsburg silty clay loam, 0 to 2 percent slopes |
| 3A | Hoyleton silt loam, 0 to 2 percent slopes |
| 3304A | Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded |
| 830 | Landfill |
| 3451A | Lawson silt loam, 0 to 2 percent slopes, frequently flooded |
| 871B | Lenzburg gravelly loam, 1 to 5 percent slopes |
| 871D | Lenzburg loam, 7 to 20 percent slopes |
| 570B | Martinsville silt loam, 2 to 5 percent slopes |
| 570C2 | Martinsville loam, 5 to 10 percent slopes, eroded |
| 7570B | Martinsville silt loam, 2 to 5 percent slopes, rarely flooded |
| 219A | Millbrook silt loam, 0 to 2 percent slopes |
| 330A | Peotone silty clay loam, 0 to 2 percent slopes |
| 865 | Pits, gravel |
| 864 | Pits, quarry |
| 148B | Proctor silt loam, 2 to 5 percent slopes |
| 481A | Raub silt loam, 0 to 2 percent slopes |
| 3073A | Ross silt loam, 0 to 2 percent slopes, frequently flooded |
| 322B | Russell silt loam, 2 to 5 percent slopes |
| 322C2 | Russell silt loam, 5 to 10 percent slopes, eroded |
| 3107A | Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded |
| 618C2 | Senachwine silt loam, 5 to 10 percent slopes, eroded |
| 618C3 | Senachwine clay loam, 5 to 10 percent slopes, severely eroded |
| 618D2 | Senachwine silt loam, 10 to 18 percent slopes, eroded |
| 618D3 | Senachwine clay loam, 10 to 18 percent slopes, severely eroded |
| 618F | Senachwine silt loam, 18 to 35 percent slopes |

| Map symbol | Approved map unit name |
|---|---|
| 618G | Senachwine silt loam, 35 to 60 percent slopes |
| 138A | Shiloh silty clay loam, 0 to 2 percent slopes |
| 3424A | Shoals silt loam, 0 to 2 percent slopes, frequently flooded |
| 668B2 | Somonauk silt loam, 2 to 5 percent slopes, eroded |
| 132A | Starks silt loam, 0 to 2 percent slopes |
| 7132A | Starks silt loam, 0 to 2 percent slopes, rarely flooded |
| 206A | Thorp silt loam, 0 to 2 percent slopes |
| 3284A | Tice silty clay loam, 0 to 2 percent slopes, frequently flooded |
| 353A | Toronto silt loam, 0 to 2 percent slopes |
| 533 | Urban land |
| 348B | Wingate silt loam, 2 to 5 percent slopes |
| 3226A | Wirt silt loam, 0 to 2 percent slopes |
| 291B | Xenia silt loam, 2 to 5 percent slopes |
| M-W | Miscellaneous water |
| W | Water |

## Soil Identification Legend According to Numerical Sequence

| Map symbol | Approved map unit name |
|---|---|
| 2A | Cisne silt loam, 0 to 2 percent slopes |
| 3A | Hoyleton silt loam, 0 to 2 percent slopes |
| 13A | Bluford silt loam, 0 to 2 percent slopes |
| 13B | Bluford silt loam, 2 to 5 percent slopes |
| 48A | Ebbert silt loam, 0 to 2 percent slopes |
| 56B | Dana silt loam, 2 to 5 percent slopes |
| 56B2 | Dana silt loam, 2 to 5 percent slopes, eroded |
| 132A | Starks silt loam, 0 to 2 percent slopes |
| 136A | Brooklyn silt loam, 0 to 2 percent slopes |
| 138A | Shiloh silty clay loam, 0 to 2 percent slopes |
| 148B | Proctor silt loam, 2 to 5 percent slopes |
| 149A | Brenton silt loam, 0 to 2 percent slopes |
| 152A | Drummer silty clay loam, 0 to 2 percent slopes |
| 154A | Flanagan silt loam, 0 to 2 percent slopes |
| 206A | Thorp silt loam, 0 to 2 percent slopes |
| 219A | Millbrook silt loam, 0 to 2 percent slopes |
| 244A | Hartsburg silty clay loam, 0 to 2 percent slopes |
| 291B | Xenia silt loam, 2 to 5 percent slopes |
| 322B | Russell silt loam, 2 to 5 percent slopes |
| 322C2 | Russell silt loam, 5 to 10 percent slopes, eroded |
| 330A | Peotone silty clay loam, 0 to 2 percent slopes |
| 348B | Wingate silt loam, 2 to 5 percent slopes |
| 353A | Toronto silt loam, 0 to 2 percent slopes |
| 481A | Raub silt loam, 0 to 2 percent slopes |
| 496A | Fincastle silt loam, 0 to 2 percent slopes |
| 533 | Urban land |
| 570B | Martinsville silt loam, 2 to 5 percent slopes |
| 570C2 | Martinsville loam, 5 to 10 percent slopes, eroded |
| | |
| 618C2 | Senachwine silt loam, 5 to 10 percent slopes, eroded |
| 618C3 | Senachwine clay loam, 5 to 10 percent slopes, severely eroded |
| 618D2 | Senachwine silt loam, 10 to 18 percent slopes, eroded |
| 618D3 | Senachwine clay loam, 10 to 18 percent slopes, severely eroded |
| 618F | Senachwine silt loam, 18 to 35 percent slopes |
| 618G | Senachwine silt loam, 35 to 60 percent slopes |
| 668B2 | Somonauk silt loam, 2 to 5 percent slopes, eroded |
| 722A | Drummer-Milford silty clay loams, 0 to 2 percent slopes |
| 830 | Landfill |
| 864 | Pits, quarry |
| 865 | Pits, gravel |
| 871B | Lenzburg gravelly loam, 1 to 5 percent slopes |
| 871D | Lenzburg loam, 7 to 20 percent slopes |
| 3073A | Ross silt loam, 0 to 2 percent slopes, frequently flooded |
| 3107A | Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded |

| Map symbol | Approved map unit name |
|---|---|
| | |
| 3226A | Wirt silt loam, 0 to 2 percent slopes |
| 3284A | Tice silty clay loam, 0 to 2 percent slopes, frequently flooded |
| 3304A | Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded |
| 3424A | Shoals silt loam, 0 to 2 percent slopes, frequently flooded |
| 3450A | Brouillett silt loam, 0 to 2 percent slopes, frequently flooded |
| 3451A | Lawson silt loam, 0 to 2 percent slopes, frequently flooded |
| 7132A | Starks silt loam, 0 to 2 percent slopes, rarely flooded |
| 7373B | Camden silt loam, sandy substratum, 2 to 5 percent slopes, rarely flooded |
| 7570B | Martinsville silt loam, 2 to 5 percent slopes, rarely flooded |
| M-W | Miscellaneous water |
| W | Water |
| | |

# CLASSIFICATION OF PEDONS
# SAMPLED FOR LABORATORY ANALYSIS
## COLES COUNTY, ILLINOIS
## A SUBSET OF MLRA's 108A and 113

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

| Sampled As | Lab Number | Publication Symbol | Approved Series |
|---|---|---|---|
| Brooklyn | 82IL-029-037 | 2A | Cisne |
| Genesee | 82IL-029-026 | 3226A | Wirt |
| Landes | 82IL-029-014 | 3304A | Landes |
| Lawson | 82IL-029-019 | 3451A | Lawson |
| Miami | 82IL-029-040 | 618G | Senachwine |
| Millbrook | 82IL-029-041 | | Millbrook |
| Sabina | 82IL-029-035 | | |
| Starks | 82IL-029-022 | | |
| Thorp | 82IL-029-021 | | |
| Tice | 82IL-029-025 | | |
| Wirt | 82IL-029-026 | 3226A | Wirt |
| Xenia | 82IL-029-027 | | |

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

| Sampled As | Lab Number | Publication Symbol | Approved Series |
|---|---|---|---|
| Allison | 84IL-029-001 | 3424A | Shoals |
| Brooklyn | 82IL-029-037 | 2A | Cisne |
| Brooklyn | 84IL-029-112 | 2A | Cisne |
| Brooklyn | 84IL-029-117 | 2A | Cisne |
| Camden | 83IL-029-075 | 7373B | Camden |
| Camden | 84IL-029-004 | 618D2 | Senachwine |
| Dana | 83IL-029-052 | 56B | Dana |
| Drummer | 81IL-029-012 | 722A | Drummer |
| Drummer | 83IL-029-046 | 722A | Drummer |
| Drummer | 84IL-029-006 | 353A | Toronto |
| Fincastle | 83IL-029-048 | 496A | Fincastle |
| Fincastle | 85IL-029-131 | 496A | Fincastle |
| Flanagan | 83IL-029-053 | 154A | Flanagan |
| Flanagan | 83IL-029-055 | 481A | Raub |
| Flanagan | 83IL-029-071 | 154A | Flanagan |
| Flanagan | 83IL-029-095 | 56B2 | Dana |
| Landes | 81IL-029-014 | 3304A | Landes |
| Lenzburg | 84IL-029-110 | 871B | Lenzburg |
| Lenzburg | 84IL-029-123 | 871B | Lenzburg |
| Martinsville | 83IL-029-104 | 570B | Martinsville |
| Martinsville | 84IL-029-107 | 668B2 | Somonauk |
| Martinsville | 84IL-029-108 | 132A | Starks |
| Miami | 83IL-029-063 | 618D3 | Senachwine |
| Miami | 84IL-029-003 | 618G | Senachwine |
| Miami | 84IL-029-109 | 291B | Xenia |
| Milford | 83IL-029-057 | 722A | Milford |
| Moundhaven | 81IL-029-015 | 3226A | Wirt |
| Sampled As | Lab Number | Publication Symbol | Approved Series |

| | | | |
|---|---|---|---|
| Pella | 83IL-029-079 | 152A | Drummer |
| Peotone | 84IL-029-111 | 330A | Peotone |
| Raub | 83IL-029-067 | 481A | Raub |
| Raub | 83Il-029-091 | 481A | Raub |
| Raub | 85IL-029-126 | 481A | Raub |
| Raub | 85IL-029-127 | 353A | Toronto |
| Raub | 85IL-029-128 | 481A | Raub |
| Raub | 85IL-029-129 | 481A | Raub |
| Ross | 84IL-029-002 | 618G | Senachwine |
| Russell | 83IL-029-050 | 322B | Russell |
| Sabina | 84IL-029-005 | 353A | Toronto |
| Shandep | 83IL-029-065 | 722A | Drummer |
| Shoals | 82IL-029-045 | 3424A | Shoals |
| Starks | 82IL-029-036 | 132A | Starks |
| Starks | 84IL-029-106 | 668B2 | Somonauk |
| Starks | 85IL-029-130 | 496A | Fincastle |
| Thorp | 81IL-029-013 | 206A | Thorp |
| Toronto | 83IL-029-056 | 56B | Dana |
| Toronto | 83IL-029-072 | 291B | Xenia |
| Toronto | 83IL-029-102 | 353A | Toronto |
| Wakeland | 83IL-029-059 | 3424A | Shoals |
| Whitaker | 83IL-029-061 | 668B2 | Somonauk |
| Wingate | 84IL-029-105 | 152A | Drummer |

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

| Sampled As | Lab Number | Publication Symbol | Approved Series |
|---|---|---|---|
| Landes | 81IL-029-014 | 3340A | Landes |
| Lawson | 82IL-029-019 | 3451A | Lawson |
| Miami | 82IL-029-040 | 618 | Senachwine |
| Millbrook | 82IL-029-041 | | |
| Starks | 82IL-029-022 | | |
| Tice | 82IL-029-025 | 3284A | Tice |
| Wirt | 82IL-029-026 | 3226A | Wirt |

**Notes to accompany the**
**Classification and Correlation**
**of the Soils in**
**Coles County, Illinois**
**Prepared by Chris Cochran**

**BLUFORD SERIES-** Previously correlated Starks (132A, 132B and to a lesser extent 134B) on the Illinoisan till plain. TUD is the OSD. 13A DMU# 155486; 13B DMU# 494722.

**BRENTON SERIES-** Previously correlated. One small area within the 100-year floodplain will be correlated Tice. Areas on the Illinoisan till plain are recorrelated to Hoyleton. 149A DMU# 410848.

**BROOKLYN SERIES-** Previously correlated. Areas on the Illinoisan till plain recorrelated to Cisne. 136A DMU# 473315.

**BROUILLETT SERIES-** Series brought in to join Edgar County. 3450A DMU# 132889

**CAMDEN SERIES-** Mapped along major drainageways on stream terraces. Subject to rare and possibly occasional flooding. Soils on terrace positions have sandy substrata. Camden on outwash plains correlated to Somonauk. 7373B DMU# 496264

**CISNE SERIES-** Previously correlated Brooklyn on the Illinoisan till plain. TUD is the OSD. 2A DMU# 155381.

**DANA SERIES-** Previously correlated. Eroded Dana is a taxadjunct to the series. It is Mollic Oxyaquic Hapludalfs. 56B DMU# 153456; 56B2 DMU# 153476.

**DRUMMER SERIES-** Previously correlated. Will map in complex with Milford as appropriate to join Douglas and Moultrie Counties and in areas where data indicates the presence of Milford. TUD is the OSD. 152A DMU# 151641; 722A DMU# 443051.

**EBBERT SERIES-** Previously correlated as Thorp on the Illinoisan till plain. TUD is OSD. 48A DMU# 489440.

**FINCASTLE SERIES-** Previously correlated. Fincastle in Coles County is a taxadjunct to the series. It is Aquic Hapludalfs. Fincastle series is Aeric Epiaqualfs. 496A DMU# 494358.

**FLANAGAN SERIES-** Previously correlated. 154A DMU# 151643

**HARTSBURG SERIES-** Previously correlated as Pella. Hartsburg in Coles County averages less than 10 percent medium and coarser sand throughout the series control section. Pella averages more than 10 percent at depths below 24 inches. 244A DMU# 153413.

**HOYLETON SERIES-** Previously correlated as Brenton and Millbrook on the Illinoisan till plain. TUD is the OSD. 3A DMU# 155382.

**LANDES SERIES-** Previously correlated. 3304A DMU# 495789.

**LANDFILL-** Misc. unit added for landfill. 830 DMU# 154002.

**LAWSON SERIES-** Previously correlated. 3451A DMU# 154674.

**LENZBURG SERIES-** Previously correlated. Lenzburg in Coles County is a taxadjunct to the series. It is Typic Udorthents. Lenzburg series is Haplic Udarents. 871B DMU# 496003; 871D DMU# 496004.

**MARTINSVILLE SERIES-** Previously correlated. Areas with the 100-year floodplain will be identified as being rarely flooded. Coarse-loamy inclusions to the map unit will be documented in the map unit description. 570B DMU# 151678; 570C2 DMU# 151679; 7570B DMU# 494904.

**MIAMI SERIES-** Dropped. Recorrelated to Senachwine. Seasonal water table is not high enough for Miami.

**MILFORD SERIES-** U of I lab data confirms its presence in Coles County. Milford will be mapped in complex with Drummer, especially in areas that join Moultrie and Douglas Counties. 722A DMU# 443051.

**MILLBROOK SERIES-** Previously correlated. Areas on the Illinoisan till plain are recorrelated to Hoyleton. Small areas within the 100-year floodplain will be recorrelated to Starks in a rarely flooded map unit. Millbrook series in Coles County is a taxadjunct to the series. It is Aquollic Hapludalfs. Millbrook series is Udollic Endoaqualfs. 219A DMU# 151648.

**MISCELLANEOUS WATER-** These are areas of sewage lagoons and animal waste ponds. M-W DMU# 155361.

**OSKALOOSA SERIES-** Series established and later made inactive due to the similarity to the Bluford series. Series was classified as Fine, smectitic, mesic Fragiaquic Hapludalfs.

**PELLA SERIES-** Dropped. Recorrelated to Hartsburg. Sand content in lower profile not sufficient for Pella.

**PEOTONE SERIES-** Previously correlated. Areas mapped Peotone on the Illinoisan till plain will be recorrelated to Shiloh. 330A DMU# 154675.

PITS, GRAVEL – New unit used to identify new and active gravel operations. 865 DMU# 153492.

**PITS, QUARRY-** Previously correlated. Use this in active limestone quarrying operations. 864 DMU# 155280.

**PROCTOR SERIES-** Previously correlated. Areas on the Illinoisan till plain are recorrelated to Hoyleton. A small area within the 100-year floodplain will be correlated to Camden, rarely flooded. 148B DMU# 140760.

**RAUB SERIES-** Previously correlated. 481A DMU# 151832.

**ROSS SERIES-** Previously correlated. 3073A DMU# 154980.

**RUSSELL SERIES-** Previously correlated. Larger areas of Russell that have less than 2 percent slope will be recorrelated to Fincastle. 322B DMU# 494353; 322C2 DMU# 153457.

**SAWMILL SERIES-** Previously correlated. 3107A DMU# 153474.

**SENACHWINE SERIES-** Previously correlated as Miami. Senachwine on G slopes was evaluated and changed to F slope if appropriate. Surface texture changed from loam to silt loam in slightly to moderately eroded areas and to clay loam in severely eroded areas to be more in line with other areas of the MLRA. 618C2 DMU# 153459; 618C3 DMU# 154667; 618D2 DMU# 153460; 618D3 DMU# 154668; 618F DMU# 153461; 618G DMU# 153399.

**SHILOH SERIES-** Previously correlated as Peotone and Drummer on the Illinoisan till plain. TUD is the OSD. 138A DMU# 464247.

**SHOALS SERIES-** Previously correlated. 3424A DMU# 140780.

**SOMONAUK SERIES-** Somonauk replaces Starks (132B) and Camden (134B) on the Wisconsin till plain. Moderate erosion was found to be common in these areas. Internal soil drainage is a little better than is typical for Starks and a little worse than is typical for Camden in areas where dense till underlies the stratified sediments 60 to 80 inches from the surface. 668B2 DMU# 494835.

**STARKS SERIES-** Previously correlated. Starks is recorrelated to Bluford and Oskaloosa on the Illinoisan till plain. Starks is correlated to Somonauk on B slopes on the Wisconsin till plain. Starks is mapped as rarely flooded within the 100-year floodplain. Starks is a taxadjunct to the series in Coles County. It is Aquic Hapludalfs. The Starks series is Aeric Endoaqualfs. 132A DMU# 494347; 7132A DMU# 494901.

**THORP SERIES-** Previously correlated. Areas of Thorp on the Illinoisan till plain are recorrelated to Ebbert. One small area with in the 100-year floodplain is reclassified as Starks, rarely flooded. 206A DMU# 408480

**TICE SERIES-** Previously correlated. 3284A DMU# 154609.

**TORONTO SERIES-** Previously correlated. 353A DMU# 140784.

**URBAN LAND-** Previously correlated. 533 DMU# 151935.

**WINGATE SERIES-** Previously correlated. 348B DMU# 140783.

**WIRT SERIES**- Previously correlated. 3226A DMU# 494906.

**WATER-** Previously identified with a special symbol. W DMU# 155171.

**XENIA SERIES-** Previously correlated. Large areas that are less than 2 percent slope will be mapped as Fincastle. 291B DMU# 151661.

Classification of the Soils

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

| Soil name | Family or higher taxonomic class |
|---|---|
| Bluford----- | Fine, smectitic, mesic Aeric Fragic Endoaqualfs |
| Brenton----- | Fine-silty, mixed, superactive, mesic Aquic Argiudolls |
| Brooklyn---- | Fine, smectitic, mesic Mollic Albaqualfs |
| Brouillett-- | Fine-loamy, mixed, superactive, mesic Aquic Cumulic Hapludolls |
| Camden------ | Fine-silty, mixed, superactive, mesic Typic Hapludalfs |
| Cisne------- | Fine, smectitic, mesic Mollic Albaqualfs |
| Dana-------- | Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls |
| *Dana-------- | Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs |
| Drummer----- | Fine-silty, mixed, superactive, mesic, Typic Endoaquolls |
| Ebbert------ | Fine-silty, mixed, superactive, mesic Argiaquic Argialbolls |
| *Fincastle--- | Fine-silty, mixed, superactive, Aquic Hapludalfs |
| Flanagan---- | Fine, smectitic, mesic Aquic Argiudolls |
| Hartsburg--- | Fine-silty, mixed, superactive, mesic Typic Endoaquolls |
| Hoyleton---- | Fine, smectitic, mesic Aquollic Hapludalfs |
| Landes------ | Coarse-loamy, mixed, superactive, mesic Fluventic Hapludolls |
| Lawson------ | Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls |
| *Lenzburg---- | Fine-loamy, mixed, active, calcareous, mesic Typic Udorthents |
| Martinsville | Fine-loamy, mixed, active, mesic Typic Hapludalfs |
| Milford----- | Fine, mixed, superactive, mesic Typic Endoaquolls |
| *Millbrook--- | Fine-silty, mixed, superactive, mesic Aquollic Hapludalfs |
| Peotone----- | Fine, smectitic, mesic Cumulic Vertic Endoaquolls |
| Proctor----- | Fine-silty, mixed, superactive, mesic Typic Argiudolls |
| Raub-------- | Fine-silty, mixed, superactive, mesic Aquic Argiudolls |
| Ross-------- | Fine-loamy, mixed, superactive, mesic Cumulic Hapludolls |
| Russell----- | Fine-silty, mixed, superactive, mesic Typic Hapludalfs |
| Sawmill----- | Fine-silty, mixed, superactive, mesic, Cumulic Endoaquolls |
| Senachwine-- | Fine-loamy, mixed, active, mesic Typic Hapludalfs |
| Shiloh------ | Fine, smectitic, mesic Cumulic Vertic Endoaquolls |
| Shoals------ | Fine-loamy, mixed, superactive, nonacid, mesic Fluventic Endoaquepts |
| Somonauk---- | Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs |
| *Starks------ | Fine-silty, mixed, superactive, mesic Aquic Hapludalfs |
| Thorp------- | Fine-silty, mixed, superactive, mesic Argiaquic Argialbolls |
| Tice-------- | Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls |
| Toronto----- | Fine-silty, mixed, superactive, mesic Udollic Epiaqualfs |
| Wingate----- | Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs |
| Wirt-------- | Coarse-loamy, mixed, superactive, mesic Dystric Fluventic Eutrudepts |
| Xenia------- | Fine-silty, mixed, superactive, mesic Aquic Hapludalfs |

## CERTIFICATION STATEMENT

The MLRA Region 11 Team Leader certifies that:

a. The fieldwork activities were completed in September 2004.

b. Coles County joins acceptably with the following survey areas:

Clark County to the southeast was published in September 1979.
Cumberland County to the south was published in June 2002.
Shelby County to the southwest was published in September 1972.
Moultrie County to the west was published in April 2005.
Edgar County to the northeast was published in 2002.
Douglas County to the north was published in August, 1971.

An exact join will be completed when these counties are updated to the MLRA legend.

c. Interpretations have been coordinated and agree with adjoining survey areas.

d. The location of all typical pedons has been checked for correct location and for the soil delineations using that name. Not all typical pedons are located in Coles County.

e. All typical pedons are classified according to Keys of Soil Taxonomy, ninth edition, 2003.

f. The digital soil maps will be reviewed for accuracy and consistancy.

**Approval Signatures and Date**

| | |
|---|---|
| Travis Neely Date | William J. Gradle Date |
| MLRA Region 11 Team Leader | State Conservationist |
| USDA, NRCS | USDA, NRCS |
| Indianapolis, IN 46278 | Champaign, IL 61821 |