

**Classification and Correlation
of the Soils of
Marshall County, Illinois
A Subset of MLRA 115C and 108A
July 1997**

This correlation was prepared by Charles Love, Soil Data Quality Specialist, MLRA Region 11 Team, Indianapolis, IN., and William Teater, Soil Scientist, MLRA 115C Team, Springfield, IL in July 1996. The final field review was conducted August 21-24, 1995 by John Doll, Assistant State Soil Scientist and William Teater, Survey Leader.

Decisions at the final field review were based on pedon data, soil correlation samples, soil maps, final field review notes, tables of interpretations, and the draft manuscript.

Headnote for Detailed Soil Survey Legend:

Map symbols consist of numbers, or a combination of numbers and a letter. The initial number(s) represent the kind of soil. A capital letter following these numbers indicates the class of slope, except for the letter "L", which indicates long duration flooding. Symbols without a slope letter are for 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.

Illinois MLRA Update Leaders agreed to use two separate standard slope classes based on landforms, for MLRAs 108 and 115.

Wisconsinan Till Plain Slopes

Illinoisan Till Plain Slopes

A- 0 to 2%
B- 2 to 5%
C- 5 to 10%
D- 10 to 15%
E- 15 to 25%
F- 25 to 35%
G- 35+

A- 0 to 2%
B- 2 to 5%
C- 5 to 10%
D- 10 to 18%
F- 18 to 35%
G- 35+

Marshall County Soil Survey was correlated under Wisconsinan Till Plain slope ranges.

**SOIL CORRELATION OF
MARSHALL COUNTY, ILLINOIS
July 1997**

| Field symbols | Field map unit name | Publication symbol | Approved map unit name |
|--------------------------|--|--------------------|--|
| 17A, 17, 278A | Keomah silt loam, 0 to 2 percent slopes | 17A | Keomah silt loam, 0 to 2 percent slopes |
| 17B2 | Keomah silt loam, 2 to 5 percent slopes, eroded | 17B2 | Keomah silt loam, 2 to 5 percent slopes, eroded |
| 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 |
| 24C2, 322C2, 27C2, 194C2 | Dodge silt loam, 5 to 10 percent slopes, eroded | 24C2 | Dodge silt loam, 5 to 10 percent slopes, eroded |
| 24D2, 322D2, 24D | Dodge silt loam, 10 to 15 percent slopes, eroded | 24D2 | Dodge silt loam, 10 to 15 percent slopes, eroded |
| 25G, 857G, 935G | Hennepin loam, 35 to 60 percent slopes | 25G | Hennepin loam, 35 to 60 percent slopes |
| 27D2, 194D2 | Miami silt loam, 10 to 15 percent slopes, eroded | 27D2 | Miami silt loam, 10 to 15 percent slopes, eroded |
| 27E, 280E, 19E2, 194E2 | Miami loam, 15 to 25 percent slopes | 27E | Miami loam, 15 to 25 percent slopes |
| 36B, 36, 36A | Tama silt loam, 2 to 5 percent slopes | 86B | Osco silt loam, 2 to 5 percent slopes |
| 37B | Worthen silt loam, 2 to 5 percent slopes | 37B | Worthen silt loam, 2 to 5 percent slopes |

MARSHALL COUNTY, ILLINOIS --Continued

| Field symbols | Field map unit name | Publication symbol | Approved map unit name |
|--|--|--------------------|---|
| 43A, 43B | Ipava silt loam, 0 to 2 percent slopes | 43A | Ipava silt loam, 0 to 2 percent slopes |
| 41A, 41B | Muscatine silt loam, 0 to 2 percent slopes | 51A | Muscatine silt loam, 0 to 2 percent slopes |
| 60C2 | La Rose silt loam, 5 to 10 percent slopes, eroded | 60C2 | La Rose silty clay loam, 5 to 10 percent slopes, eroded |
| 60D2 | La Rose silty clay loam, 10 to 15 percent slopes, eroded | 60D2 | La Rose silt loam, 10 to 15 percent slopes, eroded |
| 68, 142, 330 | Sable silty clay loam | 68A | Sable silty clay loam, 0 to 2 percent slopes |
| 36B2 | Tama silt loam, 2 to 5 percent slopes, eroded | 86B2 | Osco silty clay loam, 2 to 5 percent slopes, eroded |
| 36C2, 36C3 | Tama silt loam, 5 to 10 percent slopes, eroded | 86C2 | Osco silty clay loam, 5 to 10 percent slopes, eroded |
| 88C2, 53B, 53C, 54B, 54C, 88B2, 87D, 93C2, 98B, 98C, 131D, 131E, 379D2 | Sparta loamy sand, 7 to 15 percent slopes, eroded | 88C2 | Sparta loamy sand, 7 to 15 percent slopes, eroded |
| 91B2, 241C, 388C2 | Swygert silt loam, 2 to 5 percent slopes, eroded | 91B2 | Swygert silty clay loam, 2 to 5 percent slopes, eroded |
| 93G, 93E | Rodman gravelly loam, 20 to 70 percent slopes | 93G | Rodman gravelly sandy loam, 20 to 70 percent slopes |

MARSHALL COUNTY, ILLINOIS --Continued

| Field symbols | Field map unit name | Publication symbol | Approved map unit name |
|------------------------|--|--------------------|--|
| 145B2, 60B, 495B2 | Saybrook silt loam, 2 to 5 percent slopes, eroded | 145B2 | Saybrook silty clay loam, 2 to 5 percent slopes, eroded |
| 145C2, 495C2, 495D2 | Saybrook silt loam, 5 to 10 percent slopes, eroded | 145C2 | Saybrook silty clay loam, 5 to 10 percent slopes, eroded |
| 148B, 148B2 | Proctor silt loam, 2 to 5 percent slopes | 148B | Proctor silt loam, 2 to 5 percent slopes |
| 150A, 131B | Onarga sandy loam, 0 to 2 percent slopes | 150A | Onarga sandy loam, 0 to 2 percent slopes |
| 150C, 87C, 131C, 379C2 | Onarga sandy loam, 5 to 10 percent slopes | 150C | Onarga sandy loam, 5 to 10 percent slopes |
| 152, 206 | Drummer silty clay loam | 152A | Drummer silt loam, 0 to 2 percent slopes |
| 154A | Flanagan silt loam, 0 to 2 percent slopes | 154A | Flanagan silt loam, 0 to 2 percent slopes |
| 171B | 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 |
| 194F | Morley silt loam, 25 to 35 percent slopes | 194F | Morley silt loam, 25 to 35 percent slopes |
| 198A, 149A | Elburn silt loam, 0 to 2 percent slopes | 198A | Elburn silt loam, 0 to 2 percent slopes |
| 199A, 37A | Plano silt loam, 0 to 2 percent slopes | 199A | Plano silt loam, 0 to 2 percent slopes |

MARSHALL COUNTY, ILLINOIS --Continued

| Field symbols | Field map unit name | Publication symbol | Approved map unit name |
|-------------------------|--|--------------------|--|
| 198B, 198B2, 199B2 | Plano silt loam, 2 to 5 percent slopes | 199B | Plano silt loam, 2 to 5 percent slopes |
| 223B2 | Varna silt loam, 2 to 5 percent slopes, eroded | 223B2 | Varna silty clay loam, 2 to 5 percent slopes, eroded |
| 223C2, 223C3 | Varna silty clay loam, 5 to 10 percent slopes, eroded | 223C2 | Varna silty clay loam, 5 to 10 percent slopes, eroded |
| 224D3, 27D3 | Strawn silty clay loam, 10 to 15 percent slopes, severely eroded | 224D3 | Strawn silty clay loam, 10 to 15 percent slopes, severely eroded |
| 224E | Strawn loam, 15 to 25 percent slopes | 224E | Strawn loam, 15 to 25 percent slopes |
| 233B, 233B2, 24B | Birkbeck silt loam, 2 to 5 percent slopes | 233B | Birkbeck silt loam, 2 to 5 percent slopes |
| 233B2 | Birkbeck silty clay loam, 2 to 5 percent slopes, eroded | 233B2 | Birkbeck silty clay loam, 2 to 5 percent slopes, eroded |
| 233C2 | Birkbeck silt loam, 5 to 10 percent slopes, eroded | 233C2 | Birkbeck silty clay loam, 5 to 10 percent slopes, eroded |
| 236A, 234A | Sabina silt loam, 0 to 2 percent slopes | 236A | Sabina silt loam, 0 to 2 percent slopes |
| 243B, 134B, 243C2, 570B | St. Charles silt loam, 2 to 5 percent slopes | 243B | St. Charles silt loam, 2 to 5 percent slopes |
| 244, 67 | Hartsburg silty clay loam | 244A | Hartsburg silty clay loam, 0 to 2 percent slopes |

MARSHALL COUNTY, ILLINOIS --Continued

| Field symbols | Field map unit name | Publication symbol | Approved map unit name |
|-----------------------------|---|--------------------|--|
| 257A | Clarksdale silt loam, 0 to 2 percent slopes | 257A | Clarksdale silt loam, 0 to 2 percent slopes |
| 279B, 279A | Rozetta silt loam, 2 to 5 percent slopes | 279B | Rozetta silt loam, 2 to 5 percent slopes |
| 279B2 | Rozetta silt loam, 2 to 5 percent slopes, eroded | 279B2 | Rozetta silt loam, 2 to 5 percent slopes, eroded |
| 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 |
| 280D, 280D2 | Fayette silt loam, 10 to 15 percent slopes | 280D | Fayette silt loam, 10 to 15 percent slopes |
| 356 | Elpaso silty clay loam | 356A | Elpaso silty clay loam, 0 to 2 percent slopes |
| 375A, 91A | Rutland silt loam, 0 to 2 percent slopes | 375A | Rutland silt loam, 0 to 2 percent slopes |
| 375B2, 295B, 375B | Rutland silt loam, 2 to 5 percent slopes, eroded | 375B2 | Rutland silty clay loam, 2 to 5 percent slopes, eroded |
| 379A, 290A | Dakota loam, 0 to 2 percent slopes | 379A | Dakota loam, 0 to 2 percent slopes |
| 379B, 290B, 87B, 150B, 440B | Dakota loam, 2 to 5 percent slopes | 379B | Dakota loam, 2 to 5 percent slopes |
| 386B | Downs silt loam, 2 to 5 percent slopes | 383B | Newvienna silt loam, 2 to 5 percent slopes |

MARSHALL COUNTY, ILLINOIS --Continued

| Field symbols | Field map unit name | Publication symbol | Approved map unit name |
|--------------------------|--|--------------------|--|
| 388B2, 448B | Wenona silt loam, 2 to 5 percent slopes, eroded | 388B2 | Wenona silt loam, 2 to 5 percent slopes, eroded |
| 399A, 398A | Wea silt loam, 0 to 2 percent slopes | 399A | Wea silt loam, 0 to 2 percent slopes |
| 399B, 369B, 327B, 398B | Wea silt loam, 2 to 5 percent slopes | 399B | Wea silt loam, 2 to 5 percent slopes |
| 435 | Streator silty clay loam | 435A | Streator silty clay loam, 0 to 2 percent slopes |
| 484A | Harco silt loam, 0 to 2 percent slopes | 484A | Harco silt loam, 0 to 2 percent slopes |
| 536 | Dumps, mine | 536 | Dumps, mine |
| 541B2, 154B, 146B, 146B2 | Graymont silt loam, 2 to 5 percent slopes, eroded | 541B2 | Graymont silty clay loam, 2 to 5 percent slopes, eroded |
| 541C2 | Graymont silt loam, 5 to 10 percent slopes, eroded | 541C2 | Graymont silty clay loam, 5 to 10 percent slopes, eroded |
| 549G, 549F | Marseilles silt loam, 35 to 60 percent slopes | 549G | Marseilles silt loam, 35 to 60 percent slopes |
| 567B, 567B2 | Elkhart silt loam, 2 to 5 percent slopes | 567B | Elkhart silt loam, 2 to 5 percent slopes |
| 567C2, 567C3 | Elkhart silt loam, 5 to 10 percent slopes, eroded | 567C2 | Elkhart silty clay loam, 5 to 10 percent slopes, eroded |
| 570A, 243A | Martinsville silt loam, 0 to 2 percent slopes | 570A | Martinsville silt loam, 0 to 2 percent slopes |

MARSHALL COUNTY, ILLINOIS --Continued

| Field symbols | Field map unit name | Publication symbol | Approved map unit name |
|---|--|--------------------|--|
| 570C, 134C2, 134D2, 148C2, 327C2, 440C2 | Martinsville fine sandy loam, 5 to 10 percent slopes | 570C | Martinsville fine sandy loam, 5 to 10 percent slopes |
| 614A, 59A, 146A | Chenoa silty clay loam, 0 to 2 percent slopes | 614A | Chenoa silty clay loam, 0 to 2 percent slopes |
| 802B, 802 | Orthents, loamy, undulating | 802B | Orthents, loamy, undulating |
| 865 | Pits, gravel | 865 | Pits, gravel |
| 935F, 19F, 25F, 27F | Miami-Hennepin complex, 25 to 35 percent slopes | 935F | Miami-Hennepin complex, 25 to 35 percent slopes |
| 3028 | Jules silt loam, frequently flooded | 3028A | Jules silt loam, 0 to 2 percent slopes, frequently flooded |
| 3360L, 3060 | Slacwater silty clay loam, frequently flooded, long duration | 3360L | Slacwater silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration |
| 3480L, 3406 1480 | Moundprairie silty clay loam, undrained | 3480L | Moundprairie silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration |
| 7081A | Littleton silt loam, 0 to 2 percent slopes, rarely flooded | 7081A | Littleton silt loam, 0 to 2 percent slopes, rarely flooded |
| 7304B, 3092A | Landes loam, 2 to 5 percent slopes, rarely flooded | 7304B | Landes loam, 2 to 5 percent slopes, rarely flooded |
| 8073A, 7073A, 8077A | Ross silt loam, 0 to 2 percent slopes, occasionally flooded | 8073A | Ross silt loam, 0 to 2 percent slopes, occasionally flooded |

MARSHALL COUNTY, ILLINOIS --Continued

| Field symbols | Field map unit name | Publication symbol | Approved map unit name |
|-----------------------|--|--------------------|---|
| 8074A, 3107+, 3451 | Radford silt loam, 0 to 2 percent slopes, occasionally flooded | 8074A | Radford silt loam, 0 to 2 percent slopes, occasionally flooded |
| 8107, 8076 | Sawmill silty clay loam, occasionally flooded | 8107A | Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded |
| 8304A, 3304A | Landes fine sandy loam, 0 to 2 percent slopes, occasionally flooded | 8304A | Landes fine sandy loam, 0 to 2 percent slopes, occasionally flooded |
| 8368, 8579 | Raveenwash silt loam, occasionally flooded | 8368A | Raveenwash silt loam, 0 to 2 percent slopes, occasionally flooded |
| W, WATER | Water | W | Water |

Marshall County, Illinois

Series Established by This Correlation:

None

Series Dropped or Made Inactive:

None

Verification of Exact Cooperator Names:

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

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

Prior Soil Survey Publications

The first soil survey of Marshall County was published in 1924. R.S. Smith, E.E. De Turk, F.C. Bauer, and L.H. Smith. Marshall County Soils, May, 1924. Soil Report No. 27 University of Illinois, Urbana. 62. illus.

A second soil survey of Marshall County was published in 1937. Eric Winters, Jr, R.S Smith, and L.H. Smith. Marshall County Soils, 1937. Soil Report No. 59. University of Illinois, Urbana.

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

Disposition of Field Sheets:

The soil maps have been compiled at a scale of 1:15,840 and scheduled to be recompiled at a scale of 1:12000 in FY-97. The recompiled maps, field sheets, names overlay, will be delivered to the Illinois state office by October, 1997. Copies made from the compiled maps are available in the Marshall County field office in Marshall Co.

Instructions for Map Finishing:

Field sheets were compiled in 1995. Recompilation will be done by using contracted vendor services to scan the soils in and then lines will be adjusted by soil scientists at the MLRA 115 office at Springfield, IL on the computer. The conversion legend in the final correlation report will be used for the conversion of all symbols that appear on compiled maps.

Conventional and Special Symbols Legend:

Only those symbols indicated on the NRCS-SOILS-37A will be shown on the legend and placed on the soil maps. The definition of the Marsh special symbol is not defined as is stated in Part 647 of the National Soil Survey Handbook. Perennial water also includes miscellaneous water in Marshall County. All drainage ditches in the county are labeled as perennial, and includes intermittent ditches.

**Guidelines for use of Conventional
and Special Symbols
Marshall County Soil Survey
Scale-1:12,000**

CULTURAL FEATURES

Boundaries

County - Standard symbol used to show boundary of Tazewell county. Use on all atlas sheets where Tazewell County joins another county.

Field sheet matchline and neatline - Indicates boundaries of atlas sheets. Should always match adjacent sheet.

Ad Hoc Boundary

Indicates boundary of airports, cemeteries, and parks. No less than one acre in size. Always labeled.

State Coordinate
Tick

Land Division
Corners

Indicates section corners. Place section number as close to the center of the section as possible.

Roads

Divided - Interstates 74 and 39, these should be labeled.

Other roads - Label all Federal and State highways and state secondary (Federal Aid) roads.

Road Emblems
and Designations

Label all, use proper emblems for particular roads.

Railroad

Label all railroad tracks if the track is still in place. Do not label if the track has been removed and only the railroad bed remains.

Levees

Without road - Only use for man-made levees. Found mostly near Mackinaw river.

Pits

Gravel - Open excavations less than 2.5 acres in size, from which gravel has been removed.

WATER FEATURES

Drainage

Perennial, double line - At least 1/8" wide in most parts.

Perennial, single line - <1/8" wide. Water flows at least 9 months a year. May be dry during periods of drought.

Drainage ditch - Used to remove excess water from surrounding areas. Is not normally crossable with machinery.

Intermittent - Indicates concentrated flow during periods of rainfall

Lakes, Ponds and Reservoirs

Perennial - At least .5 acres in size. Use "W" when "Water" won't fit. Never leader into unit. If "W" won't fit inside it's not big enough, so use a wet spot symbol instead.

Miscellaneous Water Features

Marsh - Areas less than 2.5 acres in size that have standing water several months of the year and supports hydrophitic vegetation. Is not cultivated.

Wet spot - Areas less than 2.5 acres in size. One or more drainage classes wetter than the unit in which it is placed. Not to be used in poorly drained units.

SPECIAL SYMBOLS FOR SOIL SURVEY

Soil Delineations and Soil Symbols

Minimum size is 2.5 acres. Keep symbols as nearly horizontal as possible. Soil numbers should be readable from the bottom or right side of the map sheet.

Escarpments

Is not bedrock. Elevation change of at least 15 feet in an area too narrow to delineate. Not farmable. Use at least 3 symbols per occurrence.

Short Steep Slope

Used to show narrow steep areas with less than 15 feet of elevation change. At least 2 slope classes steeper than the unit in which it is placed. Use at least 4 dots per occurrence.

Depression

(DEP) Closed area less than 2.5 acres in size that ponds water. It has no natural outlets.

Soil Sample Site (S)

Used to locate the typical sites of series.

Miscellaneous Symbols

(GRA) Gravelly spot - Area less than 2.5 acres in size that have a gravelly surface texture. Has very reduced yields.

Sandy spot - Areas less than 2.5 acres in size that have a sandy surface texture. Not to be used in units that have a surface texture of sandy loam or sandier. Has reduced yields.

(ERO) Severely eroded spot - Areas less than 2.5 acres in size that meet requirements for class 3

Ad Hoc Symbols

(CLS) Calcareous Spot - Areas with calcareous surface layers surrounded by noncalcareous soils, less than 2.5 acres in size.

(GAS) Gray spot symbol - Areas less than 2.5 acres size with a grayish colored surface. Usually in low areas.

(TSP) Till spot symbol - Areas less than 2.5 acres with glacial till at the surface, located in soil series whose depth to till ranges greater than 20 inches.

General Soil Map Units

The following map units will be used on the general soil map legend:

Radford - Ross - Landes

Dakota - Wea

Moundprairie-Slacwater

Harco - Sable

Muscatune - Osco - Sable

Rutland - Streator - Wenona

Flanngan - Graymont - Elpaso

Catlin - Saybrook - Osco

Hennepin - Birkbeck - Miami

Rozetta - Keomah

**CONVERSION LEGEND FOR
MARSHALL COUNTY, ILLINOIS**

| Field symbol | Publi- cation symbol |
|--------------|-------------------------|--------------|-------------------------|--------------|-------------------------|--------------|-------------------------|
| W | W | 67 | 244A | 194C2 | 24C2 | 322D2 | 24D2 |
| WATER | W | 68 | 68A | 194D2 | 27D2 | 327B | 399B |
| 17 | 17A | 87B | 379B | 194E2 | 27E | 327C2 | 570C |
| 17A | 17A | 87C | 150C | 194F | 194F | 330 | 68A |
| 17B2 | 17B2 | 87D | 88C2 | 198A | 198A | 356 | 356A |
| 19C3 | 19C3 | 88B2 | 88C2 | 198B | 199B | 369B | 399B |
| 19D3 | 19D3 | 88C2 | 88C2 | 198B2 | 199B | 375A | 375A |
| 19E2 | 27E | 91A | 375A | 199A | 199A | 375B | 375B2 |
| 19F | 935F | 91B2 | 91B2 | 199B2 | 199B | 375B2 | 375B2 |
| 24B | 233B | 93C2 | 88C2 | 206 | 152A | 379A | 379A |
| 24C2 | 24C2 | 93E | 93G | 223B2 | 223B2 | 379B | 379B |
| 24D | 24D2 | 93G | 93G | 223C2 | 223C2 | 379C2 | 150C |
| 24D2 | 24D2 | 98B | 88C2 | 223C3 | 223C2 | 379D2 | 88C2 |
| 25F | 935F | 98C | 88C2 | 224D3 | 224D3 | 386B | 383B |
| 25G | 25G | 131B | 150A | 224E | 224E | 388B2 | 388B2 |
| 27C2 | 24C2 | 131C | 150C | 233B | 233B | 388C2 | 91B2 |
| 27D2 | 27D2 | 131D | 88C2 | 233B2 | 233B | 398A | 399A |
| 27D3 | 224D3 | 131E | 88C2 | 233B2 | 233B2 | 398B | 399B |
| 27E | 27E | 134B | 243B | 233C2 | 233C2 | 399A | 399A |
| 27F | 935F | 134C2 | 570C | 234A | 236A | 399B | 399B |
| 36 | 86B | 134D2 | 570C | 236A | 236A | 435 | 435 |

MARSHALL COUNTY, ILLINOIS --Continued

| Field symbol | Publi- cation symbol | Field symbol | Publi- cation symbol | Field symbol | Publi- cation symbol | Field symbol | Publi- cation symbol |
|--------------|----------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|----------------------------|
| 36A | 86B | 142 | 68A | 241C | 91B2 | 440B | 379B |
| 36B | 86B | 145B2 | 145B2 | 243A | 570A | 440C2 | 570C |
| 36B2 | 86B2 | 145C2 | 145C2 | 243B | 243B | 448B | 388B2 |
| 36C2 | 86C2 | 146A | 614A | 243C2 | 243B | 484A | 484A |
| 36C3 | 86C2 | 146B | 541B2 | 244 | 244A | 495B2 | 145B2 |
| 37A | 199A | 146B2 | 541B2 | 257A | 257A | 495C2 | 145C2 |
| 37B | 37B | 148B | 148B | 278A | 17A | 495D2 | 145C2 |
| 41A | 51A | 148B2 | 148B | 279A | 279B | 536 | 536 |
| 41B | 51A | 148C2 | 570C | 279B | 279B | 541B2 | 541B2 |
| 43A | 43A | 149A | 198A | 279B2 | 279B2 | 541C2 | 541C2 |
| 43B | 43A | 150A | 150A | 279C2 | 279C2 | 549F | 549G |
| 53B | 88C2 | 150B | 379B | 280C2 | 280C2 | 549G | 549G |
| 53C | 88C2 | 150C | 150C | 280D | 280D | 567B | 567B |
| 54B | 88C2 | 152 | 152A | 280D2 | 280D | 567B2 | 567B |
| 54C | 88C2 | 154A | 154A | 280E | 27E | 567C2 | 567C2 |
| 59A | 614A | 154B | 541B2 | 290A | 379A | 567C3 | 567C2 |
| 60B | 145B2 | 171B | 171B | 290B | 379B | 570A | 570A |
| 60C2 | 60C2 | 171B2 | 171B2 | 295B | 375B2 | 570B | 243B |
| 60D2 | 60D2 | 171C2 | 171C2 | 322C2 | 24C2 | 570C | 570C |
| 614A | 614A | | | | | | |
| 802 | 802B | | | | | | |
| 802B | 802B | | | | | | |
| 857G | 25G | | | | | | |
| 865 | 865 | | | | | | |
| 935F | 935F | | | | | | |

MARSHALL COUNTY, ILLINOIS --Continued

| Field symbol | Publication symbol |
|--------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|
| 935G | 25G | | | | | | |
| 1480 | 3480L | | | | | | |
| 3028 | 3028A | | | | | | |
| 3092A | 7304B | | | | | | |
| 3107+ | 8074A | | | | | | |
| 3304A | 8304A | | | | | | |
| 3360 | 3360L | | | | | | |
| 3406 | 3480L | | | | | | |
| 3451 | 8074A | | | | | | |
| 7073A | 8073A | | | | | | |
| 7081A | 7081A | | | | | | |
| 7304B | 7304B | | | | | | |
| 8073A | 8073A | | | | | | |
| 8074A | 8074A | | | | | | |
| 8076 | 8107A | | | | | | |
| 8077A | 8073A | | | | | | |
| 8107 | 8107A | | | | | | |
| 8304A | 8304A | | | | | | |
| 8368 | 8368A | | | | | | |
| 8579 | 8368A | | | | | | |

MARSHALL COUNTY, ILLINOIS

ALPHABETICAL IDENTIFICATION LEGEND

- 233B Birkbeck silt loam, 2 to 5 percent
- 233B2 Birkbeck silty clay loam, 2 to 5 percent, eroded
- 233C2 Birkbeck silty clay loam, 5 to 10 percent, eroded
- 171B Catlin silt loam, 2 to 5 percent slopes
- 171B2 Catlin silt loam, 2 to 5 percent slopes, eroded
- 171C2 Catlin silty clay loam, 5 to 10 percent slopes, eroded
- 614A Chenoa silty clay loam, 0 to 2 percent slopes
- 257A Clarksdale silt loam, 0 to 2 percent slopes
- 379A Dakota loam, 0 to 2 percent slopes
- 379B Dakota loam, 2 to 5 percent slopes
- 24C2 Dodge silt loam, 5 to 10 percent slopes, eroded
- 24D2 Dodge silt loam, 10 to 15 percent slopes, eroded
- 152A Drummer silty clay loam, 0 to 2 percent slopes
- 536 Dumps, mine
- 198A Elburn silt loam, 0 to 2 percent slopes
- 567B Elkhart silt loam, 2 to 5 percent slopes
- 567C2 Elkhart silty clay loam, 5 to 10 percent slopes, eroded
- 356A Elpaso silty clay loam, 0 to 2 percent slopes
- 280C2 Fayette silt loam, 5 to 10 percent slopes, eroded
- 280D Fayette silt loam, 10 to 15 percent slopes
- 154A Flanagan silt loam, 0 to 2 percent slopes
- 541B2 Graymont silty clay loam, 2 to 5 percent slopes, eroded
- 541C2 Graymont silt clay loam, 5 to 10 percent slopes, eroded
- 484A Harco silt loam, 0 to 2 percent slopes
- 244A Hartsburg silty clay loam, 0 to 2 percent slopes
- 25G Hennepin loam, 35 to 60 percent slopes
- 43A Ipava silt loam, 0 to 2 percent slopes
- 3028A Jules silt loam, 0 to 2 percent slopes, frequently flooded
- 17A Keomah silt loam, 0 to 2 percent slopes
- 17B2 Keomah silt loam, 2 to 5 percent slopes, eroded
- 60C2 La Rose silty clay loam, 5 to 10 percent slopes, eroded
- 60D2 La Rose silty clay loam, 10 to 15 percent slopes, eroded
- 7304B Landes loam, 2 to 5 percent slopes, rarely flooded
- 8304A Landes fine sandy loam, 0 to 2 percent slopes, occasionally flooded
- 7081A Littleton silt loam, 0 to 2 percent slopes, rarely flooded
- 549G Marseilles silt loam, 35 to 60 percent slopes
- 570A Martinsville silt loam, 0 to 2 percent slopes
- 570C Martinsville fine sandy loam, 5 to 10 percent slopes
- 27D2 Miami silt loam, 10 to 15 percent slopes, eroded
- 27E Miami loam, 15 to 25 percent slopes
- 935F Miami-Hennepin complex, 25 to 35 percent slopes
- 194F Morley silt loam, 25 to 35 percent slopes
- 1480L Moundprairie silty clay loam, frequently flooded, long duration
- 51A Muscatune silt loam, 0 to 2 percent slopes
- 383B Newvienna silt loam, 2 to 5 percent slopes
- 150A Onarga sandy loam, 0 to 2 percent slopes
- 150C Onarga sandy loam, 5 to 10 percent slopes
- 802B Orthents, loamy, undulating
- 86B Osco silt loam, 2 to 5 percent slopes

MARSHALL COUNTY, ILLINOIS

ALPHABETICAL IDENTIFICATION LEGEND --CONTINUE

- 86B2 Osco silty clay loam, 2 to 5 percent slopes, eroded
- 86C2 Osco silty clay loam, 5 to 10 percent slopes, eroded
- 865 Pits, gravel
- 199A Plano silt loam, 0 to 2 percent slopes
- 199B Plano silt loam, 2 to 5 percent slopes
- 148B Proctor silt loam, 2 to 5 percent slopes
- 8074A Radford silt loam, 0 to 2 percent slopes, occasionally flooded
- 8368A Raveenwash silt loam, 0 to 2 percent slopes, occasionally flooded
- 93G Rodman gravelly sandy loam, 20 to 70 percent slopes
- 8073A Ross silt loam, 0 to 2 percent slopes, occasionally flooded
- 279B Rozetta silt loam, 2 to 5 percent slopes
- 279B2 Rozetta silt loam, 2 to 5 percent slopes, eroded
- 279C2 Rozetta silt loam, 5 to 10 percent slopes, eroded
- 375A Rutland silt loam, 0 to 2 percent slopes
- 375B2 Rutland silty clay loam, 2 to 5 percent slopes, eroded
- 236A Sabina silt loam, 0 to 2 percent slopes
- 68A Sable silty clay loam, 0 to 2 percent slopes
- 8107A Sawmill silty clay loam, occasionally flooded
- 145B2 Saybrook silty clay loam, 2 to 5 percent slopes, eroded
- 145C2 Saybrook silt clay loam, 5 to 10 percent slopes, eroded
- 3360L Slacwater silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
- 88D2 Sparta loamy sand, 7 to 15 percent slopes, eroded
- 243B St. Charles silt loam, 2 to 5 percent slopes
- 224D3 Strawn silty clay loam, 10 to 15 percent slopes, severely eroded
- 224E Strawn loam, 15 to 25 percent slopes
- 435A Streator silty clay loam, 0 to 2 percent slopes
- 91B2 Swygert silty clay loam, 2 to 5 percent slopes, 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
- 223B2 Varna silty clay loam, 2 to 5 percent slopes, eroded
- 223C2 Varna silty clay loam, 5 to 10 percent slopes, eroded
- 398A Wea silt loam, 0 to 2 percent slopes
- 398B Wea silt loam, 2 to 5 percent slopes
- 388B2 Wenona silt loam, 2 to 5 percent slopes, eroded
- 37B Worthen silt loam, 2 to 5 percent slopes
- W Water

CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS

1. Laboratory Data from NSSL

| <u>Sampled as</u> | <u>Pedon #</u> | <u>Map sym</u> | <u>Approved</u> |
|-------------------|----------------|----------------|--|
| Rozetta | 93IL-123-035 | 279B | Inclusion in the Rozetta , it has more clay in the subsoil than defined for the series |
| Birkbeck | 93IL-123-038 | 233C2 | Birkbeck |
| Harco | 94-IL-123-010 | 484A | Harco |

2. Engineering Test Data from Illinois Department of Transportation

| <u>Sampled as</u> | <u>Pedon #</u> | <u>Map sym</u> | <u>Approved</u> |
|-------------------|----------------|----------------|-----------------|
| Harco | 94IL-123-037 | 484A | Harco |
| Birkbeck | 94IL-123-038 | 233C2 | Birkbeck |
| Sabina | 94IL-123-039 | 236A | Sabina |
| Wea | 94IL-123-052 | 399A | Wea |

**Notes to Accompany the
Classification and Correlation
of the Soils of
Marshall County, Illinois,
prepared by William Teater, Soil Scientist
and Charles Love, Soil Data Quality Specialist**

- BIRKBECK SERIES:** These soils have higher chroma than the defined range of the A horizon.
- CATLIN SERIES:** The soils in map units 171B2 and 171C2 are taxadjuncts to Catlin Series, because they do not have mollic epipedons. The taxadjunct classify as Fine-silty, mixed, mesic Mollic Hapludalfs.
- CLARKSDALE SERIES:** These soils have higher chroma (chroma of 4) than the defined range of the E horizon.
- DAKOTA SERIES:** These soils have higher chroma (chroma of 6) than the defined range of the Bt and 2Bt horizons.
- DODGE SERIES:** These soils have lower chroma (chroma of 3) than the defined range of the Bt horizon. Also, they contain less sand than the defined range of the 2Bt horizon.
- DRUMMER SERIES:** These soils have higher chroma than the defined range of the Bg horizon.
- ELBURN SERIES:** These soils have lower chroma than the defined range of the 2Cg horizon.
- ELKHART SERIES:** These soils have higher chroma than the defined range of the Bt horizon. The soils in map units 567C2 are taxadjuncts to Elkhart Series, because they do not have mollic epipedons. The taxadjunct classify as Fine-silty, mixed, mesic Oxyaquic Hapludalfs.
- FAYETTE SERIES:** These soils in map units 280C2 contain less than 27 percent clay in the upper part of the Bt horizon.
- GRAYMONT SERIES:** These soils have chroma of 4 and 8, which is not in the range of the Bt horizon. The soils in map units 541B2 and 541C2 are taxadjuncts to Graymont Series, because they do not have mollic epipedons. The taxadjunct classify as Fine-silty, mixed, mesic Oxyaquic Hapludalfs.
- HARCO SERIES:** These soils have higher chroma than the defined range of the Bt and Bk horizons.
- HARTSBURG SERIES:** These soils have higher chroma than the defined range of the Ap horizon.

- HENNEPIN SERIES:** These soils have higher chroma than the defined range of the C horizon.
- KEOMAH SERIES:** These soils have higher value and chroma than the defined range of the Cg horizon.
- LA ROSE SERIES:** The soils in map units 60C2 and 60D2 are taxadjuncts to La Rose Series, because they do not have mollic epipedons. The taxadjunct classify as Fine-loamy, mixed, mesic Mollic Hapludalfs. These soils have higher chroma than the defined range of the Ap horizon.
- MORLEY SERIES:** These soils have lower value than the defined range of the 2C horizon.
- MOUNDPRAIRIE SERIES:** These soils have higher chroma than the defined range of the Ap horizon.
- ONARGA SERIES:** These soils have loamy sand texture than the defined range of the Bt horizon.
- OSCO SERIES:** The soils in map units 86B2 and 86C2 are taxadjuncts to Osco Series, because they do not have mollic epipedons. The taxadjunct classify as Fine-silty, mixed, mesic Oxyaquic Hapludalfs.
- PROCTOR SERIES:** These soils have loamy sand texture than the defined range of the 2BC horizon.
- RUTLAND SERIES:** The soils in map units 375B2 are taxadjuncts to Ruthland Series, because they do not have mollic epipedons. The taxadjunct classify as Fine, smectitic, mesic Aquertic Hapludalfs.
- ROZETTA SERIES:** These soils have more clay than the defined range of the Bt horizon.
- SAYBROOK SERIES:** The soils in map units 145B2 and 145C2 are taxadjuncts to Saybrook Series, because they do not have mollic epipedons. The taxadjunct classify as Fine-silty, mixed, mesic Oxyaquic Hapludalfs.
- SLACWATER SERIES:** These soils have loamy sand texture than the defined range of the Bt horizon.
- SPARTA SERIES:** The soils in map units 88C2 are taxadjuncts to Sparta Series, because they do not have mollic epipedons. The taxadjunct classify as Sandy, mixed, mesic Psammentic Hapludalfs.
- STREATOR SERIES:** These soils have higher value than the defined range of the Bg horizon.
- SWYGERT SERIES:** The soils in map units 91B2 are taxadjuncts to Swygert Series, because they do not have mollic epipedons. The taxadjunct classify as Fine, mixed, mesic Aquertic Hapludalfs.

VARNA SERIES: The soils in map units 223B2 and 223C2 are taxadjuncts to Varna Series, because they do not have mollic epipedons. The taxadjunct classify as Fine, illitic, mesic Oxyaquic Hapludalfs.

WENONA SERIES: The soils in map units 388B2 are taxadjuncts to Wenona Series, because they do not have mollic epipedons. The taxadjunct classify as Fine, smectitic, mesic Vertic Hapludalfs.

The project leader identified B_{ck} horizons in the lower part of the profile for the following series: Birkbeck, Chenoa, Clarksdale, Dodge, Elkhart, Flanagan, Greymont, Harco, Hartsburg, Keomah, Rutland, Sabina, Saybrook, Strawn, Streator, Swygert, Sylvan, Varna, and Wenona. Proposing to expand the Official Series Description Range in Characteristics to include B_{ck} horizons in the lower part of the profile.

The following statement will be added to the OSD range in characteristics. "Some pedons contains B_{ck} horizons. The B_{ck} horizons show evidence of carbonates from upper horizons have been translocated and deposited into these layers. Evidence includes carbonate concretions, nodules, accumulations and coatings. These horizons are transitional to the calcareous C horizon parent material below."

**CLASSIFICATION OF THE SOILS
MARSHALL COUNTY, ILLINOIS**

An asterick in the first column indicates that the soil is a taxadjunct to the series. See "Notes to Accompany the Classification and Correlation of the Soils of Marshall County, Illinois" for a description of those characteristics of the soil that are outside the range of the series.

| Soil name | Family or higher taxonomic class |
|----------------|--|
| Birkbeck----- | Fine-silty, mixed, mesic Oxyaquic Hapludalfs |
| *Catlin----- | Fine-silty, mixed, mesic Typic Argiudolls |
| Chenoa----- | Fine, illitic, mesic Aquic Argiudolls |
| Clarksdale--- | Fine, smectitic, mesic Udollic Epiqualfs |
| Dakota----- | Fine-loamy over sandy or sandy-skeletal, mixed, mesic Typic Argiudolls |
| Dodge----- | Fine-silty, mixed, mesic Typic Hapludalfs |
| Drummer----- | Fine-silty, mixed, mesic Typic Endoaquolls |
| Elburn----- | Fine-silty, mixed, mesic Aquic Argiudolls |
| *Elkhart----- | Fine-silty, mixed, mesic Oxyaquic Argiudolls |
| Elpaso----- | Fine-silty, mixed, mesic Typic Endoaquolls |
| Fayette----- | Fine-silty, mixed, mesic Typic Hapludalfs |
| Flanagan----- | Fine, smectitic, mesic Aquertic Argiudolls |
| *Graymont----- | Fine-silty, mixed, mesic Oxyaquic Argiudolls |
| Harco----- | Fine-silty, mixed, mesic Aquic Argiudolls |
| Hartsburg---- | Fine-silty, mixed, mesic Typic Endoaquolls |
| Hennepin----- | Fine-loamy, mixed, mesic Typic Eutrochrepts |
| Ipava----- | Fine, smectitic, mesic Aquertic Argiudolls |
| Jules----- | Coarse-silty, mixed, calcareous, mesic Typic Udifluvents |
| Keomah----- | Fine, smectitic, mesic Aeric Endoaqualfs |
| *La Rose----- | Fine-loamy, mixed, mesic Typic Argiudolls |
| Landes----- | Coarse-loamy, mixed, mesic Fluventic Hapludolls |
| Littleton---- | Fine-silty, mixed, mesic Aquic Cumulic Hapludolls |
| Marseilles--- | Fine-silty, mixed, mesic Typic Hapludalfs |
| Martinsville | Fine-loamy, mixed, mesic Typic Hapludalfs |
| Miami----- | Fine-loamy, mixed, mesic Oxyaquic Hapludalfs |
| Morley----- | Fine, illitic, mesic Oxyaquic Hapludalfs |
| Moundprairie | Fine-silty, mixed, calcareous, mesic Mollic Fluvaquents |
| Muscatune---- | Fine-silty, mixed, mesic Aquic Argiudolls |
| Newvienna--- | Fine-silty, mixed, mesic Oxyaquic Hapludalfs |
| Onarga----- | Coarse-loamy, mixed, mesic Typic Argiudolls |
| Orthents----- | Fine-loamy, mixed, mesic Typic Udorthents |
| *Osco----- | Fine-silty, mixed, mesic Oxyaquic Argiudolls |
| Plano----- | Fine-silty, mixed, mesic Typic Argiudolls |
| Proctor----- | Fine-silty, mixed, mesic Typic Argiudolls |
| Radford----- | Fine-silty, mixed, mesic Fluvaquentic Hapludolls |
| Raveenwash--- | Coarse-loamy, mixed, calcareous, mesic Aquic Udifluvents |
| Rodman----- | Sandy-skeletal, mixed, mesic Typic Hapludolls |
| Ross----- | Fine-loamy, mixed, mesic Cumulic Hapludolls |

**CLASSIFICATION OF THE SOILS
MARSHALL COUNTY, ILLINOIS**

| Soil name | Family or higher taxonomic class |
|----------------|---|
| Rozetta----- | Fine-silty, mixed, mesic Oxyaquic HapludalFs |
| *Rutland----- | Fine, smectitic, mesic Aquertic Argiudolls |
| Sabina----- | Fine, smectitic, mesic Vertic EpiqualFs |
| Sable----- | Fine-silty, mixed, mesic Typic Endoaquolls |
| Sawmill----- | Fine-silty, mixed, mesic Cumulic Endoaquolls |
| *Saybrook----- | Fine-silty, mixed, mesic Oxyaquic Argiudolls |
| Slacwater---- | Fine-silty, mixed, mesic Mollic Fluvaquents |
| *Sparta----- | Sandy, mixed, mesic Entic Hapludolls |
| St. Charles | Fine-silty, mixed, mesic Oxyaquic HapludalFs |
| Strawn----- | Fine-loamy, mixed, mesic Typic HapludalFs |
| Streator----- | Fine, smectitic, mesic Vertic Endoaquolls |
| *Swygert----- | Fine, mixed, mesic Aquertic Argiudolls |
| Sylvan----- | Fine-silty, mixed, mesic Oxyaquic HapludalFs |
| *Varna----- | Fine, illitic, mesic Oxyaquic Argiudolls |
| Wea----- | Fine-loamy, mixed, mesic Typic Argiudolls |
| *Wenona----- | Fine, smectitic, mesic Vertic Argiudolls |
| Worthen----- | Fine-silty, mixed, mesic Cumulic Hapludolls |

Certification Statement:

The MLRA Team Leader/State Conservationist, et al certify that:

- a. The field mapping was completed in June, 1995.
- b. Marshall County joins the following survey areas:

Stark County (published 1996)
Bureau County (published 1992)
Putnam County (published 1992)
Peoria County (published 1992)
Woodford County (modern survey completed, not published)

The joining has been checked for both the general soil map and the detailed soil maps. The differences in the names of map units along with an explanation as to why there is a difference are on file at the East Central Glaciated Region 11 MLRA office. Future MLRA legends will take care of any other join problems. The join is satisfactory.

- c. Interpretations have been coordinated with adjoining survey areas.
- d. The location of pedon descriptions are in soil areas using those names and legal descriptions. The locations have been checked by the survey leader.
- e. All typical pedons are classified according to Soil Taxonomy Key, 6th edition, Amendment 17.
- f. Soil maps have been reviewed for completeness, accuracy, and consistency.

Approved joining statements attached.

APPROVAL SIGNATURES AND DATE

Travis Neely 8-8-97

TRAVIS NEELY
Region-11 MLRA Team Leader
Natural Resources Conservation Service
Indianapolis, Indiana

William J. Gradle

William J. Gradle
State Conservationist
Natural Resources Conservation Service
Champaign, Illinois

Join Statements
General Soil Map Associations

Marshall County Illinois
July 1997

Stark County Tama-Muscatine
Marshall County Muscatune-Osco-Sable

Explanation

Tama soil is similar to the Osco soil in the Marshall Co. Muscatune-Osco-Sable association.

Muscatine soil is similar to the Muscatune soil in the Marshall Co. Muscatune-Osco-Sable association.

Sable soil is similar to a minor soil (Denny) in the Tama-Muscatine association.

Stark County Elburn-Plano
Marshall County Dakota-Wea

Explanation

Elburn soil lacks significant acreage to be considered a minor soil in the Marshall Co. Dakota-Wea association.

Plano soil is a minor soil in the Dakota-Wea association.

Dakota soil was not mapped in Stark Co. due to insufficient acreage.

Wea soil is similar to the Plano soil in the Stark Co. Dakota-Wea association.

Stark County Catlin-Flanagan
Marshall County Catlin-Saybrook-Osco

Explanation

Flanagan soil lacks significant acreage to be considered a minor soil in the Marshall Co. Catlin-Saybrook-Osco association.

Saybrook soil is a minor soil in the Stark Co. Catlin-Flanagan association.

Osco soil is similar to the Catlin soil in the Stark Co. Catlin-Flanagan association.

Bureau County Tama-Muscatine-Sable
Marshall County Muscatune-Osco-Sable

Explanation

Tama soil is similar to the Osco soil in the Marshall Co. Muscatune-Osco-Sable association.

Muscatine is similar to the Muscatune soil in the Marshall Co. Muscatune-Osco-Sable association.

Bureau County Catlin-Sable
Marshall County Catlin-Saybrook-Osco

Explanation

Sable soil is a minor soil in the Marshall Co. Catlin-Saybrook-Osco association.

Saybrook and Osco soils are similar to the Catlin soil in the Bureau Co. Catlin-Sable association.

Bureau County Rozetta-Fayette-Hennepin
Marshall County Hennepin-Birkbeck-Miami

Explanation

Rozetta and Fayette soils are minor soils in the Marshall Co. Hennepin-Birkbeck-Miami association.

Birkbeck soil is similar to the Rozetta soil in the Bureau Co. Rozetta-Fayette-Hennepin association.

Miami soil is similar to the Hennepin soil in the Bureau Co. Rozetta-Fayette-Hennepin association.

Putnam County Moundprairie
Marshall County (along Crow Creek) Radford-Ross-Landes

Explanation

Moundprairie soil is similar to a minor soil (Sawmill) in the Marshall Co. Radford-Ross-Landes association.

Landes soil is a minor soil in the Putnam Moundprairie association.

Ross soil is similar to a minor soil (Huntsville) in the Putnam Co. Moundprairie association.

Radford soil was not mapped in Putnam Co. due to insufficient acreage.

Marshall County (along the Illinois River) Moundprairie-Slacwater

Explanation

Slacwater soil is similar to Moundprairie soil in the Putnam Co. Moundprairie association.

Putnam County Wea-Ade-Alvin
Marshall County Dakota-Wea

Explanation

Ade soil is similar to a minor soil (Sparta) in the Marshall Co. Dakota-Wea association.

Alvin soil is similar to a minor soil (Martinsville) in the Marshall Co. Dakota-Wea association.

Dakota soil is similar to Wea soil in the Putnam Co. Wea-Ade-Alvin association.

Putnam County Catlin-Flanagan
Marshall County Flanagan-Graymont-Elpaso

Explanation

Catlin soil is a minor soil in the Marshall Co. Flanagan-Graymont-Elpaso association.

Elpaso soil is similar to a minor soil (Drummer) in the Putnam Co. Catlin-Flanagan association.

Graymont soil is similar to the Catlin soil in the Putnam Co. Catlin-Flanagan association.

Putnam County Rozetta-Fayette-Miami
Marshall County Hennepin-Birkbeck-Miami

Explanation

Rozetta soil is a minor soil in the Marshall Co. Hennepin-Birkbeck-Miami association.

Fayette soil is a minor soil in the Marshall Co. Hennepin-Birkbeck-Miami association.

Hennepin soil is a minor soil in the Putnam Co. Rozetta-Fayette-Miami association.

Birkbeck soil is similar to the Rozetta soil in the Putnam Co. Rozetta-Fayette-Miami association.

Putnam County Hennepin-Miami-Morley
Marshall County Hennepin-Birkbeck-Miami

Explanation

Morley soil lacks significant acreage to be considered a minor soil in the Marshall Co. Hennepin-Birkbeck-Miami association.

Birkbeck soil lacks significant acreage to be considered a minor soil in the Putnam Co. Hennepin-Miami-Morley association.

Putnam County Birkbeck-Rozetta-Fayette
Marshall County Rozetta-Keomah

Explanation

Birkbeck soil lacks significant acreage to be considered a minor soil in the Marshall Co. Rozetta-Keomah association.

Fayette soil is a minor soil in the Marshall Co. Rozetta-Keomah association.

Keomah soil is similar to the Blount soil in the Putnam Co. Birkbeck-Rozetta-Fayette association.

Peoria County Ipava-Tama-Elkhart
Marshall County Muscatune-Osco-Sable

Explanation

Ipava is similar to the Muscatune soil in the Marshall Co. Muscatune-Osco-Sable association.

Tama soil is similar to the Osco soil in the Marshall Co. Muscatune-Osco-Sable association.

Elkhart soil is similar to the Osco soil in the Marshall Co. Muscatune-Osco-Sable association.

Sable soil is a minor soil in the Peoria Co. Ipava-Tama-Elkhart association.

Peoria County Proctor-Elburn-Drummer
Marshall County Dakota-Wea

Explanation

Proctor soil is similar to a minor soil (Plano) in the Marshall Co. Dakota-Wea association.

Elburn soil lacks significant acreage to be considered a minor soil in the Marshall Co. Dakota-Wea association.

Drummer soil lacks significant acreage to be considered a minor soil in the Marshall Co. Dakota-Wea association.

Dakota and Wea soils are similar to the Proctor soil in the Peoria Co. Proctor-Elburn-Drummer association.

Peoria County Rozetta-Keomah-Sylvan
Marshall County Rozetta-Keomah

Explanation

Sylvan soil is similar to a minor soil (Fayette) in the Marshall Co. Rozetta-Keomah association.

Peoria County Hickory-Strawn-Marseilles
Marshall County Hennepin-Birkbeck-Miami

Explanation

Hickory soil is similar to the Hennepin soil in the Marshall Co. Hennepin-Birkbeck-Miami association.

Strawn soil is similar to Miami soil in the Marshall Co. Hennepin-Birkbeck-Miami association.

Marseilles soil lacks significant acreage to be considered a minor soil in the Marshall Co. Hennepin-Birkbeck-Miami association.

Birkbeck soil is similar to a minor soil (Dodge) in the Peoria Co. Hickory-Strawn-Marseilles association.

Woodford County Ipava-Sable-Tama
Marshall County Muscatune-Osco-Sable

Explanation

Ipava soil is similar to the Muscatine soil in the Marshall Co. Muscatune-Osco-Sable association.

Tama soil is similar to the Osco soil in the Marshall Co. Muscatune-Osco-Sable association.

Woodford County

Marshall County

Chenoa-Elpaso-Graymont

Flanagan-Graymont-Elpaso

Explanation

Chenoa soil is similar to the Flanagan soil in the Marshall Co. Flanagan-Graymont-Elpaso association.

Woodford County

Marshall County

Ross-Lawson-Sawmill

Radford-Ross-Landes

Explanation

Lawson soil is similar to the Radford soil in the Marshall Co. Radford-Ross-Landes association.

Sawmill soil is a minor soil in the Marshall Co. Radford-Ross-Landes association.

Landes soil is a minor soil in the Woodford Co. Ross-Lawson-Sawmill association.

Woodford County

Marshall County

Slacwater-Raveenwash

Moundprairie-Slacwater

Explanation

Raveenwash soil is a minor soil in the Marshall Co. Moundprairie-Slacwater association.

Moundprairie soil is similar to the Slacwater soil in the Woodford Co. Slacwater-Raveenwash association.

Marshall County Join Notes

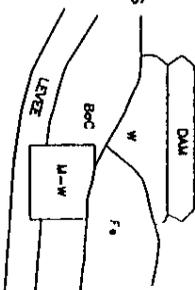
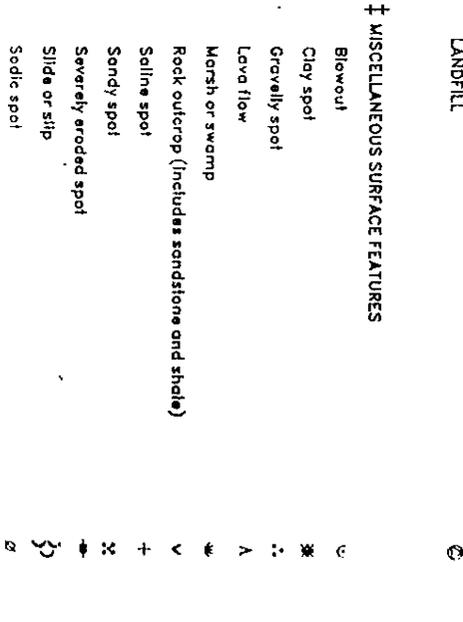
In the soil surveys of La Salle, Putnam, Bureau, Stark, Peoria, and Woodford counties a few map units join with similar map units that have a different name in Marshall County. Also a few of the map units in the adjacent counties join map units in Marshall County that have the same soil name but have different slope or erosion classes. These differences result from variations in the extent of the soils or from conceptual changes in the soil classification system. The join with adjacent county surveys is acceptable.



CONVENTIONAL AND SPECIAL SYMBOLS LEGEND

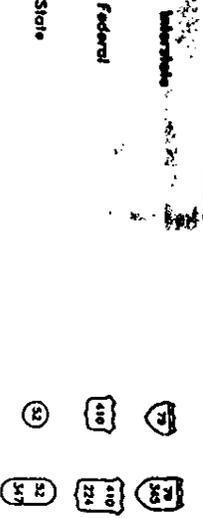
Soil Survey Area: Marshall Co.
State: IL

Date: 6/27/97

| DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | | |
|---|-----------|---|--------|---|--------|--|--|
| CULTURAL FEATURES | | | | | | | |
| BOUNDARIES | | MISCELLANEOUS CULTURAL FEATURES | | | | | |
| National, state, or province | — — — — — | Farmstead, house (omit in urban areas) | ■ | SPECIAL SYMBOLS FOR SOIL SURVEY AND SURGO ‡ SOIL DELINEATIONS AND SOIL SYMBOLS  | | | |
| County or parish | — — — — — | Church | ⊠ | | | | |
| Minor civil division | — — — — — | School | ⊡ | | | | |
| Reservation (national forest or park, state forest or park) | — — — — — | Other Religion (label) | ⊠ | | | | |
| Land grant | — — — — — | Located object (label) | ⊠ | | | | |
| Limit of soil survey (label) and/or denied access areas | — — — — — | Tank (label) | ⊠ | | | | |
| Field sheet matchline & neckline | — — — — — | Lookout Tower | ⊠ | | | | |
| Previously Published Survey | — — — — — | Oil and/or Natural Gas Wells | ⊠ | | | | |
| OTHER BOUNDARY (label) | | Windmill | ⊠ | | | | |
| Airport, airfield | ⊠ | Lighthouse | ⊠ | | | | |
| Cemetery | ⊠ | HYDROGRAPHIC FEATURES | | | | | |
| City/county park | ⊠ | STREAMS | | | | | |
| STATE COORDINATE TICK | ⊠ | ‡ Perennial, double line | ⊠ | MISCELLANEOUS SURFACE FEATURES  | | | |
| LAND DIVISION CORNERS (section and land grants) | | Perennial, single line | ⊠ | | | | |
| GEOGRAPHIC COORDINATE TICK | ⊠ | Intermittent | ⊠ | | | | |
| TRANSPORTATION | | Drainage end | ⊠ | | | | |
| Divided roads | ⊠ | DRAINAGE AND IRRIGATION | | | | | |
| Other roads | ⊠ | ‡ Double line canal (label) | ⊠ | | | | |
| | ⊠ | Perennial drainage end/or irrigation ditch | ⊠ | | | | |
| | ⊠ | Intermittent drainage end/or irrigation ditch | ⊠ | | | | |
| | ⊠ | | ⊠ | | | | |
| | ⊠ | | ⊠ | | | | |

Trail

ROAD EMBLEMS & DESIGNATIONS



County, farm or ranch

RAILROAD

POWER TRANSMISSION LINE (normally not shown)

PIPELINE (normally not shown)

FENCE (normally not shown)

LEVEES

Without road

With road

With railroad

† Single side slope (showing actual feature location)

DAMS

Medium or small

LANDFORM FEATURES

Prominent Hill or Peak

Soil Sample Site

SMALL LAKES, PONDS AND RESERVOIRS

† Perennial water

† Miscellaneous water

Flood pool line

MISCELLANEOUS WATER FEATURES

Spring

Wall, orfession

Well, irrigation

Spoil area
Stony spot
Very stony spot
Well spot

† RECOMMENDED AD HOC SOIL SYMBOLS

| UNIT | SYMBOL, no | SYMBOL | UNIT | SYMBOL, no | SYMBOL |
|------|------------|--------|------|------------|--------|
| --- | 1 | ★ | --- | 23 | ○ |
| --- | 2 | □ | --- | 24 | ○ |
| --- | 3 | □ | --- | 25 | ○ |
| --- | 4 | ✕ | --- | 26 | ○ |
| --- | 5 | □ | --- | 27 | ○ |
| --- | 6 | □ | --- | 28 | ○ |
| --- | 7 | □ | --- | 29 | ○ |
| --- | 8 | □ | --- | 30 | □ |
| --- | 9 | □ | --- | 31 | ○ |
| --- | 10 | □ | --- | 32 | ○ |
| --- | 11 | ✕ | --- | 33 | ○ |
| --- | 12 | □ | --- | 34 | ○ |
| --- | 13 | □ | --- | 35 | ○ |
| --- | 14 | □ | --- | 36 | ○ |
| --- | 15 | ✕ | --- | 37 | + |
| --- | 16 | △ | --- | 38 | ○ |
| --- | 17 | △ | --- | 39 | + |
| --- | 18 | * | --- | 40 | + |
| --- | 19 | ✕ | --- | 41 | + |
| --- | 20 | ✕ | --- | 42 | + |
| --- | 21 | □ | --- | 43 | + |
| --- | 22 | □ | --- | 44 | + |

at 2785 spot

GRAY spot

† Denotes SSURGO feature and symbol.

All hydrographic features except for perennial double line streams and double line canals are published in blue. The double line features are compiled as a water (W) soil map unit. The feature's proper name is substituted for the soil map unit symbol for publication.

| LABEL NAME | DESCRIPTION |
|------------|--|
| BLO | Blowout A small saucer, cup, or trough—shaped hollow or depression formed by wind erosion, on a pre-existing sand deposit. Typically ___ to ___ acres. |
| BPI | Borrow pit An open excavation from which soil and underlying material have been removed, usually for road construction. Typically ___ to ___ acres. |
| CLA | Clay spot Surface texture is silty clay or clay. Typically ___ to ___ acres. |
| DEP | Depression, closed A shallow, saucer—shaped area slightly lower on the landscape than the surrounding area, but without a natural outlet for surface drainage. Typically <u>.5</u> to <u>2</u> acres. |
| ESB | Escarpment, bedrock A relatively continuous and steep slope or cliff produced by erosion or faulting breaking the general continuity of more gently sloping land surfaces. Exposed material is hard or soft bedrock. |
| ESO | Escarpment, other A relatively continuous and steep slope or cliff generally produced by erosion, but can be produced by faulting breaking the continuity of more gently sloping land surfaces. Exposed nonbedrock material is nonsoil or very shallow, poorly developed soil. |
| GPI | Gravel pit An open excavation from which soil and underlying material have been removed, and used without crushing, as a source of sand or gravel. Typically <u>.5</u> to <u>2</u> acres. |
| GRA | Gravelly spot Surface layer has more than 35 percent, by volume, of rock fragments that are mostly less than 3 inches in diameter. Typically <u>.5</u> to <u>2</u> acres. |
| GUL | Gully A very small channel with steep sides cut by running water and through which water ordinarily runs only after a rain or an ice or snow melt. Generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage. |
| LDF | Landfill An area of accumulated waste products of human habitation which can be above or below natural ground level. Typically ___ to ___ acres. |
| LAV | Lava flow A solidified body of rock formed from lateral, surficial outpouring of molten lava from a vent or fissure. Often lobate in shape. Typically ___ to ___ acres. |
| LVS | Levee An embankment to confine or control water, especially one built along the banks of a river to prevent overflow of lowlands. |
| MAR | Marsh or swamp A water saturated, very poorly drained area, intermittently or permanently water-covered. Marsh areas are dominantly covered by sedges, cattails, and rushes. Swamps are dominantly covered by trees or shrubs. Not used in map units where poorly drained or very poorly drained soils are the named components. Typically <u>.5</u> to <u>2</u> acres. |
| MPI | Mine or quarry An open excavation from which soil and underlying material is removed exposing the bedrock. Also used to denote surface openings to underground mines. Typically ___ to ___ acres. |
| MIS | Miscellaneous water Small manmade water area used for industrial, sanitary, or mining applications that contain water most of the year. Typically ___ to ___ acres. |
| WAT | Perennial water Small natural or manmade lake, pond, or pit that contains water most of the year. Typically ___ to ___ acres. |
| ROC | Rock outcrop An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map unit are shallow over bedrock. Typically ___ to ___ acres. |
| -SAL | Saline spot Surface layer with an electrical conductivity of 8 decisiemens per meter more than the surface layer of the named soils in the surrounding map unit, which has an EC of 4 decisiemens per meter or less. Typically ___ to ___ acres. |

which has an EC of 4 decisiemens per meter or less. Typically 10 acres.
Surface layer with sand content greater than 75 percent in areas where the surface layer of the named soils of the surrounding map unit have less than about 25 percent sand. Typically 5 to 2 acres.

An area where on the average 75 percent or more of the original surface layer has been lost from accelerated erosion. Typically 5 to 2 acres.

Narrow soil area that has slopes that are at least 2 slope classes steeper than the slope class of the surrounding map unit.

A closed depression formed either by solution of the surficial rock, or by collapse of underlying coves. Complexes of sinkholes in carbonate-rock terrain are the main components of karst topography. Typically to acres.

Prominent landform scars or ridges caused by fairly recent mass movement or descent of earthy material resulting from failure of earth or rock under shear stress along one or several surfaces. Typically to acres.

Surface layer with a sodium adsorption ratio that is 10 or more than the surface layer of the named soils in the surrounding map unit, which has a sodium adsorption ratio of 5 or less. Typically to acres.

Piles of earthy materials either smoothed or uneven resulting from human activity. Typically to acres.

An area with 0.01 to 3 percent of the surface covered with rock fragments that are greater than 10 inches in diameter. Typically to acres.

An area with more than 3 percent of the surface covered with rock fragments that are greater than 10 inches in diameter. Typically to acres

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 5 to 2 acres.

SAN Sandy spot

ERO Severely eroded spot

SLP Short, steep slope

SNK Sinkhole

SLI Slide or slip

SOD Sodic spot

SPO Spoil area

STN Stony spot

STV very stony spot

WET Wet spot

AD HOC:

CLA Calcareous spot

TIL Hill spot

GRY grey spot
