

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
301 NORTH RANDOLPH STREET  
CHAMPAIGN, ILLINOIS 61820

CLASSIFICATION AND CORRELATION  
OF THE SOILS OF  
PUTNAM COUNTY, ILLINOIS  
APRIL, 1987

This correlation was prepared by John C. Doll, assistant state soil scientist, in April, 1987. It was started during the final field review the week of November 17-21, 1986. Decisions in the field correlation are based upon soil correlation samples, soil maps, field review reports, and the draft of the manuscript. Lou Buller, soil correlator on the soils staff at MNTR, and Thomas Bicki, assistant professor of pedology at the University of Illinois, participated in the comprehensive review the week of April 14-18, 1986.

Headnote for Detailed Soil Survey Legend:

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

SOIL CORRELATION OF  
PUTNAM COUNTY, ILLINOIS

| Field symbols   | Field map unit name                                      | Recom-<br>mended<br>symbol | Recommended map<br>unit name                             |
|---|--|----------------------------|--|
| 23B, 23, 23A,<br>27B, 27B2                              | Blount silt loam, 2<br>to 5 percent slopes               | 23B                        | Blount silt loam, 1<br>to 5 percent slopes               |
| 25G, 241G,<br>25G3, 27G,<br>194G, 241G3,<br>241G2       | Hennepin loam, 30 to<br>60 percent slopes                | 25G                        | Hennepin loam, 30 to<br>60 percent slopes                |
| 27C2, 27C3,<br>27C                                      | Miami silt loam, 5 to<br>10 percent slopes,<br>eroded    | 27C2                       | Miami silt loam, 5 to<br>10 percent slopes,<br>eroded    |
| 27D2, 27D3,<br>27D                                      | Miami loam, 10 to 18<br>percent slopes,<br>eroded        | 27D2                       | Miami loam, 10 to 18<br>percent slopes,<br>eroded        |
| 27F, 25E,<br>25E2, 25F,<br>27E, 27E2,<br>27E3, 27F2     | Miami loam, 18 to 30<br>percent slopes                   | 27F                        | Miami loam, 18 to 30<br>percent slopes                   |
| 36B, 567B,<br>36B2, 41B,<br>199B, 199B2                 | Tama silt loam, 2 to<br>5 percent slopes                 | 36B                        | Tama silt loam, 2 to<br>5 percent slopes                 |
| 36C2, 36C3,<br>36C, 199C,<br>199C2, 199C3               | Tama silt loam, 5 to<br>10 percent slopes,<br>eroded     | 36C2                       | Tama silt loam, 5 to<br>10 percent slopes,<br>eroded     |
| 37, 37A, 37B2   | Worthen silt loam, 1<br>to 5 percent slopes              | 37B                        | Worthen silt loam, 1<br>to 5 percent slopes              |
| 41, 41A, 199A,<br>36A                                   | Muscatine silt loam                                      | 41                         | Muscatine silt loam                                      |
| 53B, 741B,<br>741B2, 53B2,<br>54B                       | Bloomfield loamy fine<br>sand, 1 to 7 percent<br>slopes  | 53B                        | Bloomfield loamy fine<br>sand, 1 to 7 percent<br>slopes  |
| 53D, 741D,<br>741D2, 741C,<br>741C2, 53C,<br>53C2, 53D2 | Bloomfield loamy fine<br>sand, 7 to 20<br>percent slopes | 53D                        | Bloomfield loamy fine<br>sand, 7 to 20<br>percent slopes |

PUTNAM COUNTY, ILLINOIS --Continued

| Field symbols   | Field map unit name                                   | Recommended symbol | Recommended map unit name                            |
|---|---|--------------------|--|
| 67, 67A   | Harpster silty clay loam                              | 67                 | Harpster silty clay loam                             |
| 68, 68A, 68+  | Sable silty clay loam                                 | 68                 | Sable silty clay loam                                |
| 93B, 93C2, 93C  | Rodman gravelly loam, 2 to 7 percent slopes           | 93B                | Rodman gravelly loam, 2 to 7 percent slopes          |
| 93D, 93E2, 93D2   | Rodman gravelly sandy loam, 7 to 18 percent slopes    | 93E                | Rodman gravelly sandy loam, 12 to 30 percent slopes  |
| 93F, 93F2, 93F3, 93G2   | Rodman gravelly sandy loam, 30 to 60 percent slopes   | 93G                | Rodman gravelly sandy loam, 30 to 60 percent slopes  |
| 98B, 88B, 354A, 354B, 354B2, 354, 98A, 98B2, 88A, 88B2        | Ade loamy fine sand, 1 to 7 percent slopes            | 98B                | Ade loamy fine sand, 1 to 7 percent slopes           |
| 98D, 88C, 88C2, 88D, 98C, 98C2, 354C, 354C2, 354D, 88D2, 98D2 | Ade loamy fine sand, 7 to 15 percent slopes           | 98D                | Ade loamy sand, 7 to 15 percent slopes               |
| 131B2, 131A, 131B, 175B, 175A, 175                            | Alvin fine sandy loam, 2 to 7 percent slopes, eroded  | 131B2              | Alvin fine sandy loam, 2 to 7 percent slopes, eroded |
| 131D2, 131C, 131C2, 131C3, 131D3                              | Alvin fine sandy loam, 7 to 20 percent slopes, eroded | 131D               | Alvin fine sandy loam, 7 to 20 percent slopes        |
| 131F, 131E, 131F2, 98E, 88E, 88E2, 53E, 53F                   | Alvin fine sandy loam, 20 to 30 percent slopes        | 131F               | Alvin fine sandy loam, 20 to 30 percent slopes       |
| 134B, 243B, 134A, 134B2                                       | Camden silt loam, 2 to 5 percent slopes               | 134B               | Camden silt loam, 2 to 5 percent slopes              |

PUTNAM COUNTY, ILLINOIS --Continued

| Field symbols  | Field map unit name  | Recommended symbol | Recommended map unit name  |
|--|--|--------------------|--|
| 134C2, 134C3,<br>243C2, 134C   | Camden silt loam, 5<br>to 10 percent<br>slopes, eroded           | 134C2              | Camden silt loam, 5<br>to 10 percent<br>slopes, eroded           |
| 145C2, 145C  | Saybrook silt loam, 5<br>to 10 percent<br>slopes, eroded         | 145C2              | Saybrook silt loam, 5<br>to 10 percent<br>slopes, eroded         |
| 151, 172, 102,<br>184, 151A,<br>172A, 501                              | Ridgeville fine sandy<br>loam                                    | 151                | Ridgeville fine sandy<br>loam                                    |
| 154, 154B,<br>154A, 171A   | Flanagan silt loam   | 154                | Flanagan silt loam   |
| 171B, 171B2,<br>145B2  | Catlin silt loam, 2<br>to 5 percent slopes                       | 171B               | Catlin silt loam, 2<br>to 5 percent slopes                       |
| 171C2, 171C,<br>171C3  | Catlin silt loam, 5<br>to 10 percent<br>slopes, eroded           | 171C2              | Catlin silt loam, 5<br>to 10 percent<br>slopes, eroded           |
| 194C2, 194C,<br>194C3  | Morley silt loam, 5<br>to 10 percent<br>slopes, eroded           | 194C2              | Morley silt loam, 5<br>to 10 percent<br>slopes, eroded           |
| 194D2, 194D,<br>194D3, 241D2,<br>223D3, 223D2,<br>223D, 241D3,<br>241D | Morley silty clay<br>loam, 10 to 18<br>percent slopes,<br>eroded | 194D2              | Morley silty clay<br>loam, 10 to 18<br>percent slopes,<br>eroded |
| 194F, 241F,<br>194F2, 194F3,<br>241F2, 241F3                           | Morley silt loam, 18<br>to 35 percent slopes                     | 194F               | Morley silt loam, 18<br>to 35 percent slopes                     |
| 200  | Orio loam  | 200                | Orio fine sandy loam   |
| 205C2  | Metea loamy fine<br>sand, 5 to 10<br>percent slopes,<br>eroded   | 205C2              | Metea loamy fine sand<br>5 to 10 percent<br>slopes, eroded       |

PUTNAM COUNTY, ILLINOIS --Continued

| Field symbols  | Field map unit name  | Recommended symbol | Recommended map unit name                                      |
|--|--|--------------------|--|
| 205D2  | Metea loamy fine sand, 10 to 15 percent slopes, eroded         | 205D2              | Metea loamy fine sand, 10 to 15 percent slopes eroded          |
| 223B2, 223B  | Varna silty clay loam, 2 to 5 percent slopes, eroded           | 223B2              | Varna silty clay loam, 2 to 5 percent slopes, eroded           |
| 223C3, 223C2, 223C, 145C3  | Varna silty clay loam, 5 to 10 percent slopes, severely eroded | 223C3              | Varna silty clay loam, 5 to 10 percent slopes, severely eroded |
| 233B, 24, 24B, 24B2, 233B2   | Birkbeck silt loam, 2 to 5 percent slopes                      | 233B               | Birkbeck silt loam, 2 to 5 percent slopes                      |
| 233C2, 233C, 233C3, 24C, 24C2, 24C3  | Birkbeck silt loam, 5 to 10 percent slopes, eroded             | 233C2              | Birkbeck silt loam, 5 to 10 percent slopes, eroded             |
| 236, 234, 234A, 236A, 146A   | Sabina silt loam   | 236                | Sabina silt loam   |
| 278, 61, 219, 104, 242, 132, 61A, 279A, 278A                                       | Stronghurst silt loam  | 278                | Stronghurst silt loam  |
| 279B, 279B2, 280B, 280B2   | Rozetta silt loam, 2 to 5 percent slopes                       | 279B               | Rozetta silt loam, 2 to 5 percent slopes                       |
| 280C2, 280C, 280C3, 386C, 386C2, 386C3   | Fayette silt loam, 5 to 10 percent slopes, eroded              | 280C2              | Fayette silt loam, 5 to 10 percent slopes, eroded              |
| 280D, 233D, 24D, 24D2, 134D, 134D2, 134D3, 171D, 171D2, 233D2, 233D3, 280D2, 280D3 | Fayette silt loam, 10 to 15 percent slopes                     | 359D               | Fayette silt loam, till substratum, 10 to 15 percent slopes    |

PUTNAM COUNTY, ILLINOIS --Continued

| Field symbols   | Field map unit name                                       | Recom-<br>mended<br>symbol | Recommended map<br>unit name  |
|---|---|----------------------------|---|
| 369A  | Waupecan silt loam, 0<br>to 2 percent slopes              | 369                        | Waupecan silt loam  |
| 379A, 440,<br>440A, 87,<br>87A, 150,<br>150A, 265,<br>286, 286A,<br>379 | Dakota loam, 0 to 2<br>percent slopes                     | 379A                       | Dakota loam, 0 to 2<br>percent slopes                                 |
| 87B2, 286B2,<br>150B, 150B2,<br>87B, 379B,<br>87C, 87C2                 | Dickenson sandy loam,<br>2 to 7 percent<br>slopes, eroded | 379B2                      | Dakota loam, 2 to 5<br>percent slopes,<br>eroded                      |
| 386B, 386B2,<br>36B3  | Downs silt loam, 2 to<br>5 percent slopes                 | 386B                       | Downs silt loam, 2 to<br>5 percent slopes                             |
| 398A, 290A,<br>290, 398   | Wea silt loam, 0 to 2<br>percent slopes                   | 398A                       | Wea silt loam, 0 to 2<br>percent slopes                               |
| 398B2, 290B,<br>290B2, 369B,<br>369B2                                   | Wea silt loam, 2 to 5<br>percent slopes,<br>eroded        | 398B                       | Wea silt loam, 2 to 5<br>percent slopes                               |
| 533   | Urban land  | 533                        | Urban land  |
| 536   | Mine dumps  | 536                        | Dumps, mine   |
| 152, 152A   | Drummer silty clay<br>loam, till<br>substratum            | 552                        | Drummer silty clay<br>loam, till<br>substratum                        |
| 570A, 327A,<br>387A   | Martinsville silt<br>loam, 0 to 2 percent<br>slopes       | 570A                       | Martinsville loam, 0<br>to 2 percent slopes                           |
| 570C2, 327C2,<br>327B, 327C3,<br>327C, 327B2,<br>290C2, 290C,<br>387B   | Martinsville loam, 5<br>to 10 percent<br>slopes, eroded   | 570C2                      | Martinsville fine<br>sandy loam, 5 to 10<br>percent slopes,<br>eroded |
| 587B, 587B2,<br>587A, 587   | Terril loam, 1 to 7<br>percent slopes                     | 587B                       | Terril loam, 1 to 7<br>percent slopes                                 |

PUTNAM COUNTY, ILLINOIS --Continued

| Field symbols   | Field map unit name                                | Recommended symbol | Recommended map unit name                          |
|---|--|--------------------|--|
| 802B, 802   | Orthents, loamy, undulating                        | 802B               | Orthents loamy, undulating                         |
| 802E, 808F, 808, 820, 820G, 808E                                  | Orthents, loamy, hilly                             | 802E               | Orthents, loamy, hilly                             |
| 819G, 551G, 819F, 25-55 <del>18</del>                             | Hennepin-Vanmeter complex, 30 to 60 percent slopes | 819G               | Hennepin-Vanmeter complex, 30 to 60 percent slopes |
| 865   | Pits, gravel                                       | 865                | Pits, gravel                                       |
| 1480, 1400, 103   | Moundprairie silty clay loam, wet                  | 1480               | Moundprairie silty clay loam, wet                  |
| 3480, 3400, 8400, 480, 8480, 400                                  | Moundprairie silty clay loam, occasionally flooded | 3480               | Moundprairie silty clay loam, frequently flooded   |
| 6081, 81A, 284, 284A, 7081, 81                                    | Littleton Variant silt loam, rarely flooded        | 6081               | Littleton Variant silt loam, rarely flooded        |
| 7107, 7292, 7070, 7400, 7480, 292                                 | Sawmill silty clay loam, rarely flooded            | 7107               | Sawmill silty clay loam, rarely flooded            |
| 7302, 302   | Ambraw silty clay loam, rarely flooded             | 7302               | Ambraw silty clay loam, rarely flooded             |
| 8077, 73, 77+, 77A, 73A, 77                                       | Huntsville silt loam, occasionally flooded         | 8077               | Huntsville silt loam, occasionally flooded         |
| 8107, 76, 451, 107, 8070, 776, 76, 8451, 76A, 8076, 70            | Sawmill silty clay loam, occasionally flooded      | 8107               | Sawmill silty clay loam, occasionally flooded      |
| 8304, 7304, 6179, 3179, 3452, 8179, 304A, 179, 92, 92A, 3092, 304 | Landes fine sandy loam                             | 8304               | Landes fine sandy loam, occasionally flooded       |

PUTNAM COUNTY, ILLINOIS --Continued

| Field symbols | Field map unit name                        | Recom-<br>mended<br>symbol | Recommended map unit name                  |
|---------------|--|----------------------------|--|
| 8378, 378     | Lanier sandy loam,<br>occasionally flooded | 8378                       | Lanier sandy loam,<br>occasionally flooded |
| W             | Water                                      | W                          | Water                                      |

Series Established by this Correlation:

None.

Series Dropped or Made Inactive

None

Certification Statement:

The state soil scientist certifies that:

1. Soil mapping was completed in September, 1986.

2. Only La Salle County has a published modern soil surveys. Bureau County recently completed a project soil survey. The joining has been checked for both the general soil maps and the detailed soil maps for La Salle and Bureau Counties. The differences in the names or symbols that represent the map units are explained as follows:

General Soil Map:

| <u>Putnam County</u> | <u>La Salle County</u> | <u>Explanation</u>  |
|----------------------|------------------------|---|
| Moundprairie         | Hesch-Calco-Millington | Moundprairie and Calco soils are similar (Moundprairie soils are stratified in the surface layer.) Hesch, Calco, and Millington soils were not recognized in Putnam County. |

Detailed Soil Maps:

|   |  |   |
|---|--|---|
| 27F Miami loam, 18 to 30 percent slopes   | 25F2 Hennepin silt loam, 18 to 30 percent slopes, eroded | Capability subclasses are the same. In Putnam County, Hennepin soils were not mapped on slopes of less than 30 percent due to insufficient acreage. The eroded phase is an inclusion in the uneroded phase. |
| 36B Tama silt loam, 2 to 5 percent slopes | 36C Tama silt loam, 4 to 7 percent slopes                | The slope classes overlap. The interpretations are the same; map unit 36C is capability subclass 2e.  |

Detailed Soil Maps:

Putnam County

La Salle County

Explanation

|   |  |  |
|---|--|--|
|   | 36C2 Tama silt loam,<br>4 to 7 percent slopes,<br>eroded     | The slope classes overlap.<br>The uneroded phase is a<br>mapping inclusion in the<br>eroded phase. The<br>interpretations are the<br>same; map unit 36C is<br>capability subclass 2e.  |
|   | 199B Plano silt loam,<br>2 to 4 percent slopes               | The slope classes overlap.<br>In Putnam County, Plano<br>soils were of insufficient<br>acreage. They were<br>included with the Tama<br>soils in mapping.   |
| 36B Tama silt loam,<br>2 to 5 percent slopes    | 199C2 Plano silt loam,<br>4 to 7 percent slopes,<br>eroded   | The slope classes overlap.<br>In Putnam County, Plano<br>soils were of insufficient<br>acreage. The eroded phase<br>is included in the<br>uneroded phase. The<br>interpretations are the<br>same. Map unit 199C2 is<br>capability subclass 2e. |
| 41 Muscatine silt loam                          | 41B Muscatine silt loam,<br>2 to 4 percent slopes            | In Putnam County, the<br>gently sloping phase was<br>not mapped because of<br>insufficient acreage.  |
| 151 Ridgeville fine sandy<br>loam               | 151B Ridgeville fine<br>sandy loam, 2 to 4<br>percent slopes | In Putnam County, the<br>gently sloping phase was<br>not recognized because of<br>insufficient acreage.  |
| 154 Flanagan silt loam                          | 154B Flanagan silt loam,<br>2 to 4 percent slopes            | In Putnam County, the<br>gently sloping phase was<br>not mapped because of<br>insufficient acreage.  |
| 171B Catlin silt loam,<br>2 to 5 percent slopes | 171C2 Catlin silt loam,<br>4 to 7 percent slopes,<br>eroded  | The slope classes overlap.<br>The interpretations are<br>the same; map unit 171C2<br>is capability subclass 2e.<br>Eroded areas are included<br>in the map unit.   |

Detailed Soil Maps:

| <u>Putnam County</u>  | <u>La Salle County</u>  | <u>Explanation</u>   |
|---|---|--|
| 194D2 Morley silty clay loam, 10 to 18 percent slopes, eroded | 194E2 Morley silt loam, 12 to 18 percent slopes, eroded       | The slope classes overlap. The surface texture is dominantly silty clay loam in Putnam County. The capability subclass of 194D2 in Putnam County is 4e and that of the more sloping soils in La Salle County is 6e.  |
| 236 Sabina silt loam  | 236B Sabina silt loam, 2 to 4 percent slopes                  | In Putnam County, the gently sloping phase was of insufficient acreage.  |
|   | 234B Sunbury silt loam, 2 to 4 percent slopes                 | In Putnam County, the gently sloping phase was not recognized because of insufficient acreage. Sunbury soils have an epipedon that is both thicker and darker than Sabina soils. The capability subclass of Sabina soils in Putnam County is 2w and that of the more rolling phase of Sunbury soils is 2e. |
| 379B2 Dakota loam, 2 to 5 percent slopes                      | 87C2 Dickinson fine sandy loam, 4 to 7 percent slopes, eroded | The slope classes overlap. Dickinson soils were not recognized in Putnam County. Land capability subclass is 2e for map unit 379B2 and is 3e for the map unit 87C2.  |
| 552 Drummer silty clay loam, till substratum                  | 152 Drummer silty clay loam                                   | In Putnam County, Drummer soils with loamy outwash through a depth of 60 inches were mapping inclusions in Drummer silty clay loam, till substratum soils. Drummer silty clay loam, till substratum soils have moderately slow permeability in the substratum.   |

Detailed Soil Maps:

Putnam County

La Salle County

Explanation

1480 Moundprairie silty clay loam, wet

400 Calco silty clay loam

Calco soils in La Salle County have numerous "marsh spot" symbols within the soil boundary. Moundprairie soils have stratification in the surface layer. Map unit 1480 is subclass 5w. These are similar soils with similar interpretation.

3480 Moundprairie silt loam, frequently flooded

400 Calco silty clay loam

Moundprairie soils show evidence of stratification in the surface layer. These are similar soils.

8107 Sawmill silty clay loam, occasionally flooded

107 Sawmill silty clay loam

In Putnam County, more than one flooding phase of Sawmill soil was recognized. The interpretations are the same.

Putnam County

Bureau County

Explanation

Detailed Soil Maps:

398A Wea silt loam, 0 to 2 percent slopes

440A Jasper silt loam, 0 to 2 percent slopes

In Putnam County, Jasper soils were of insufficient acreage to recognize. Jasper soils lack gravel in the lower part of their sola.

8107 Sawmill silty clay loam, occasionally flooded

76 Otter silt loam

Otter soils in Putnam County, were of insufficient acreage to map separately. Small areas of Otter soils are inclusions in the Sawmill soils. These are similar soils.

3. Interpretations have been coordinated except as explained in the join statement; the manuscript agrees with the soil interpretations records except as noted in the notes to accompany the classification and correlation of the soils.

4. The location of pedon descriptions are in soil areas using those names and legal descriptions. The locations have been checked by the survey leader.

Verification of Exact Cooperator Names:

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

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

The cooperators to be listed on the inside of the front cover are the same as those on the front cover and in addition state: "It is part of the technical assistance provided to the Marshall-Putnam County Soil and Water Conservation District. The cost was shared by the Putnam County Board and the Illinois Department of Agriculture. This soil survey is Illinois Agricultural Experiment Station Soil Report No. 140."

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. Blue-line copies of compiled maps are with (a) the D.C. at the Henry field office, (b) the Putnam County Supervisor of Assessments, (c) the survey leader in Toulon and (d) this field correlation being submitted to MNTC.

Prior Soil Survey Publication:

The first soil survey of Putnam County was published in 1937. Washer, H., R.S. Smith, and L.H. Smith. Putnam County Soils, July, 1937. Soil Report No. 60. University of Illinois, Agricultural Experiment Station. 30 p. This survey updates the first survey and provides additional information and larger maps that show soils in greater detail.

Instructions for Map Finishing:

Map finishing will be done in the map finishing unit at the Illinois state office using the soil identification legend and symbols legend approved at the final correlation conference. Symbols for map finishing should not be ordered until after the final correlation conference. All publication symbols will be shown as approved in the conversion legend of the final correlation document.



GUIDELINES FOR USE OF  
CONVENTIONAL AND SPECIAL SYMBOLS

| <u>Symbol</u>                       | <u>Guideline for Use</u>  |
|-------------------------------------|---|
| CULTURAL FEATURES                   |   |
| <u>Railroad</u>                     | Use to show railroad location with the initials "R.R." written along the photo image.   |
| <u>Levee</u>                        | Use to show levee with or without road, 5 feet or more in height and less than 100 feet in width.   |
| <u>Dams</u>                         | <u>Small</u> - Use to show dam with image less than .3 inch in length for water bodies greater than 2 acres.<br><u>Large</u> - Use to show dam with image greater than .3 inch in length.   |
| <u>Church</u>                       | Use to show church in rural area. Center symbol on photo image, do not draw to scale.   |
| <u>School</u>                       | Use to show school in rural area. Center symbol on photo image, do not draw to scale.   |
| WATER FEATURES                      |   |
| <u>Drainage</u>                     | <u>Perennial (single line)</u> - Use to show streams if they flow 7 months or more in years of normal rainfall. Average image width is less than .1 inch.<br><u>Intermittent end</u> - Use to show streams that flow less than 7 months in years of normal rainfall.<br><u>Drainage end</u> - Use to show direction, termination, or dispersion of flow.<br><u>Drainage ditch</u> - Use to show noncrossable ditch with photo image less than .1 inch wide. |
| <u>Lakes, Ponds, and Reservoirs</u> | <u>Perennial</u> - Use to show bodies of water 2 acres or larger; place a "w" or "water" on small or medium areas, but give name of larger lakes if known.  |
| <u>Marsh or Swamp</u>               | Place one symbol for each 10 acres where water stands nearly year round.  |
| <u>Wet Spot</u>                     | Generally small <u>depressional</u> areas less than 2 acres in size that are at least one drainage  |

class lower than the surrounding map unit. Not shown within units of poorly drained soils.

### SPECIAL SYMBOLS FOR SOIL SURVEY

|   |  |
|---|--|
| <u>Soil Delineations and Soil Symbols</u>         | Minimum size of soil delineation is 3 acres. Place symbol in straight line and as near to horizontal as possible. Keep "arrowed in" symbols to a minimum.      |
| <u>Escarpment (Other than Bedrock)</u>            | Minimum elevation change of 15 feet in area too narrow to delineate. Area should be nearly vertical. Arrows point downslope.                                   |
| <u>Soil Sample Site</u>                           | Use to show location of representative pedon for series in county. Placed on field sheet and compiled sheet after pedon is approved.                           |
| <u>Short Steep Slope</u>                          | Slopes with less than 10 feet of relief. They are at least two slope classes steeper than the designated slope group for the mapping unit.                     |
| <u>Gravelly Spot</u>                              | Areas 1/4 to 2 acres which have gravelly surface layer that alters plant growth. Not mapped with gravelly soils.   |
| <u>Rock Outcrop (Limestone, Sandstone, Shale)</u> | Use to indicate area of rock outcrop less than 2 acres in size within a map unit typically without bedrock.  |
| <u>Severely Eroded Spot</u>                       | Use to show area of severely eroded soil less than 2 acres in size within a less eroded map unit.  |
| <u>Blowout</u>                                    | Depression in landscape caused by wind erosion. Devoid of vegetation and extremely difficult to revegetate. Typically 1/4 to 2 acres in size.                  |
| <u>Dumps and Other Nonsoil Areas</u>              | Areas 1/4 to 2 acres of waste rock, general refuse, or other nonsoil material that is incapable of supporting plants. Use 536 for larger dumps.                |
| <u>Sandy Spot</u>                                 | Areas 1/4 to 2 acres which have a sandy surface layer that significantly alters plant growth. Not mapped with coarse-loamy families.                           |
| <u>Muck Spot</u>                                  | Place one symbol for each 10 acres where muck soil is in area of mineral soil.   |
| <u>Calcareous Spot</u>                            | An area less than 3 acres in size where surface layer is calcareous and map units that normally are acid. Do not use as a substitute for severely eroded spot. |

Approved:

Date: April 21, 1987

Earl E. Voss  
EARL E. VOSS  
State Soil Scientist  
SCS, Champaign, Illinois

Date: April 22, 1987

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University of Illinois  
Urbana, Illinois 61801

The Legend of Mapping Units According to Alphabetical Sequence has not been included. It can be generated from the file of SCS-SOI-6 by MNTC.



## 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   |
|------------|---|
| 23B        | Blount silt loam, 1 to 5 percent slopes (where drained)   |
| 36B        | Tama silt loam, 2 to 5 percent slopes   |
| 37B        | Worthen silt loam, 1 to 5 percent slopes  |
| 41         | Muscatine silt loam   |
| 67         | Harpster silty clay loam (where drained)  |
| 68         | Sable silty clay loam (where drained)   |
| 131B2      | Alvin fine sandy loam, 2 to 7 percent slopes, eroded  |
| 131D       | Alvin fine sandy loam, 7 to 20 percent slopes   |
| 134B       | Camden silt loam, 2 to 5 percent slopes   |
| 151        | Ridgeville fine sandy loam  |
| 154        | Flanagan silt loam  |
| 171B       | Catlin silt loam, 2 to 5 percent slopes   |
| 200        | Orio fine sandy loam (where drained)  |
| 223B2      | Varna silty clay loam, 2 to 5 percent slopes, eroded  |
| 233B       | Birkbeck silt loam, 2 to 5 percent slopes   |
| 236        | Sabina silt loam (where drained)  |
| 278        | Stronghurst silt loam (where drained)   |
| 279B       | Rozetta silt loam, 2 to 5 percent slopes  |
| 369        | Waupecan silt loam  |
| 379A       | Dakota loam, 0 to 2 percent slopes  |
| 379B2      | Dakota loam, 2 to 5 percent slopes, eroded  |
| 386B       | Downs silt loam, 2 to 5 percent slopes  |
| 398A       | Wea silt loam, 0 to 2 percent slopes  |
| 398B       | Wea silt loam, 2 to 5 percent slopes  |
| 552        | Drummer silty clay loam, till substratum (where drained)  |
| 570A       | Martinsville loam, 0 to 2 percent slopes  |
| 587B       | Terril loam, 1 to 7 percent slopes  |
| 3480       | Moundprairie silty clay loam, frequently flooded (where drained and either protected from flooding or not frequently flooded during the growing season) |
| 6081       | Littleton Variant silt loam, rarely flooded   |
| 7107       | Sawmill silty clay loam, rarely flooded (where drained)   |
| 7302       | Ambraw silty clay loam, rarely flooded (where drained)  |
| 8077       | Huntsville silt loam, occasionally flooded  |
| 8107       | Sawmill silty clay loam, occasionally flooded (where drained)   |

SOIL SURVEY PUTNAM COUNTY, ILLINOIS

PRIME FARMLAND--Continued

| Map<br>symbol | Soil name                                    |
|---------------|--|
| 8304          | Landes fine sandy loam, occasionally flooded |

Classification of Pedons  
Sampled for Laboratory Analysis

Due to the size of the county, short duration of the survey, and the concurrent survey in adjacent Bureau County, no pedons were sampled for laboratory analysis.

CONVERSION LEGEND FOR  
PUTNAM COUNTY, ILLINOIS

| Field symbol  | Recom-<br>mended<br>symbol | Field<br>symbol | Recom-<br>mended<br>symbol | Field<br>symbol | Recom-<br>mended<br>symbol | Field<br>symbol | Recom-<br>mended<br>symbol |
|---------------|----------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|----------------------------|
| W             | W                          | 37              | 37B                        | 88B             | 98B                        | 131E            | 131F                       |
| <del>16</del> | <del>819G</del>            | 37A             | 37B                        | 88B2            | 98B                        | 131F            | 131F                       |
| 23            | 23B                        | 37B2            | 37B                        | 88C             | 98D                        | 131F2           | 131F                       |
| 23A           | 23B                        | 41              | 41                         | 88C2            | 98D                        | 132             | 27B                        |
| 23B           | 23B                        | 41A             | 41                         | 88D             | 98D                        | 134A            | 134B                       |
| 24            | 233B                       | 41B             | 36B                        | 88D2            | 98D                        | 134B            | 134B                       |
| 24B           | 233B                       | 53B             | 53B                        | 88E             | 131F                       | 134B2           | 134B                       |
| 24B2          | 233B                       | 53B2            | 53B                        | 88E2            | 131F                       | 134C            | 134C2                      |
| 24C           | 233C2                      | 53C             | 53D                        | 92              | 8304                       | 134C2           | 134C2                      |
| 24C2          | 233C2                      | 53C2            | 53D                        | 92A             | 8304                       | 134C3           | 134C2                      |
| 24C3          | 233C2                      | 53D             | 53D                        | 93B             | 93B                        | 134D            | 359D                       |
| 24D           | 359D                       | 53D2            | 53D                        | 93C             | 93B                        | 134D2           | 359D                       |
| 24D2          | 359D                       | 53E             | 131F                       | 93C2            | 93B                        | 134D3           | 359D                       |
| 25-5519       | 819G                       | 53F             | 131F                       | 93D             | 93E                        | 145B2           | 171B                       |
| 25E           | 27F                        | 54B             | 53B                        | 93D2            | 93E                        | 145C            | 145C2                      |
| 25E2          | 27F                        | 61              | 27B                        | 93E2            | 93E                        | 145C2           | 145C2                      |
| 25F           | 27F                        | 61A             | 27B                        | 93F             | 93G                        | 145C3           | 223C3                      |
| 25G           | 25G                        | 67              | 67                         | 93F2            | 93G                        | 146A            | 23G                        |
| 25G3          | 25G                        | 67A             | 67                         | 93F3            | 93G                        | 150             | 379A                       |
| 27B           | 23B                        | 68              | 68                         | 93G2            | 93G                        | 150A            | 379A                       |
| 27B2          | 23B                        | 68+             | 68                         | 98A             | 98B                        | 150B            | 379B2                      |
| 27C           | 27C2                       | 68A             | 68                         | 98B             | 98B                        | 150B2           | 379B2                      |
| 27C2          | 27C2                       | 70              | 8107                       | 98B2            | 98B                        | 151             | 151                        |
| 27C3          | 27C2                       | 73              | 8077                       | 98C             | 98D                        | 151A            | 151                        |
| 27D           | 27D2                       | 73A             | 8077                       | 98C2            | 98D                        | 152             | 552                        |
| 27D2          | 27D2                       | 76              | 8107                       | 98D             | 98D                        | 152A            | 552                        |
| 27D3          | 27D2                       | 76              | 8107                       | 98D2            | 98D                        | 154             | 154                        |
| 27E           | 27F                        | 76A             | 8107                       | 98E             | 131F                       | 154A            | 154                        |
| 27E2          | 27F                        | 77              | 8077                       | 102             | 151                        | 154B            | 154                        |
| 27E3          | 27F                        | 77+             | 8077                       | 103             | 1480                       | 171A            | 154                        |
| 27F           | 27F                        | 77A             | 8077                       | 104             | 27B                        | 171B            | 171B                       |
| 27F2          | 27F                        | 81              | 6081                       | 107             | 8107                       | 171B2           | 171B                       |
| 27G           | 25G                        | 81A             | 6081                       | 131A            | 131B2                      | 171C            | 171C2                      |
| 36A           | 41                         | 87              | 379A                       | 131B            | 131B2                      | 171C2           | 171C2                      |
| 36B           | 36B                        | 87A             | 379A                       | 131B2           | 131B2                      | 171C3           | 171C2                      |
| 36B2          | 36B                        | 87B             | 379B2                      | 131C            | 131D                       | 171D            | 359D                       |
| 36B3          | 386B                       | 87B2            | 379B2                      | 131C2           | 131D                       | 171D2           | 359D                       |
| 36C           | 36C2                       | 87C             | 379B2                      | 131C3           | 131D                       | 172             | 151                        |
| 36C2          | 36C2                       | 87C2            | 379B2                      | 131D2           | 131D                       | 172A            | 151                        |
| 36C3          | 36C2                       | 88A             | 98B                        | 131D3           | 131D                       | 175             | 131B2                      |

PUTNAM COUNTY, ILLINOIS --Continued

| Field symbol | Recom-<br>mended<br>symbol | Field<br>symbol | Recom-<br>mended<br>symbol | Field<br>symbol | Recom-<br>mended<br>symbol | Field<br>symbol | Recom-<br>mended<br>symbol |
|--------------|----------------------------|-----------------|----------------------------|-----------------|----------------------------|-----------------|----------------------------|
| 175A         | 131B2                      | 234             | 236                        | 290C2           | 570C2                      | 501             | 151                        |
| 175B         | 131B2                      | 234A            | 236                        | 292             | 7107                       | 533             | 533                        |
| 179          | 8304                       | 236             | 236                        | 302             | 7302                       | 536             | 536                        |
| 184          | 151                        | 236A            | 236                        | 304             | 8304                       | 551G            | 819G                       |
| 194C         | 194C2                      | 241D            | 194D2                      | 304A            | 8304                       | 567B            | 363                        |
| 194C2        | 194C2                      | 241D2           | 194D2                      | 327A            | 570A                       | 570A            | 570A                       |
| 194C3        | 194C2                      | 241D3           | 194D2                      | 327B            | 570C2                      | 570C2           | 570C2                      |
| 194D         | 194D2                      | 241F            | 194F                       | 327B2           | 570C2                      | 587             | 587B                       |
| 194D2        | 194D2                      | 241F2           | 194F                       | 327C            | 570C2                      | 587A            | 587B                       |
| 194D3        | 194D2                      | 241F3           | 194F                       | 327C2           | 570C2                      | 587B            | 587B                       |
| 194F         | 194F                       | 241G            | 25G                        | 327C3           | 570C2                      | 587B2           | 587B                       |
| 194F2        | 194F                       | 241G2           | 25G                        | 354             | 98B                        | 741B            | 53B                        |
| 194F3        | 194F                       | 241G3           | 25G                        | 354A            | 98B                        | 741B2           | 53B                        |
| 194G         | 25G                        | 242             | 278                        | 354B            | 98B                        | 741C            | 53D                        |
| 199A         | 41                         | 243B            | 134B                       | 354B2           | 98B                        | 741C2           | 53D                        |
| 199B         | 36B                        | 243C2           | 134C2                      | 354C            | 98D                        | 741D            | 53D                        |
| 199B2        | 36B                        | 265             | 379A                       | 354C2           | 98D                        | 741D2           | 53D                        |
| 199C         | 36C2                       | 278             | 278                        | 354D            | 98D                        | 776             | 8107                       |
| 199C2        | 36C2                       | 278A            | 278                        | 369A            | 369                        | 802             | 802B                       |
| 199C3        | 36C2                       | 279A            | 278                        | 369B            | 398B                       | 802B            | 802B                       |
| 200          | 200                        | 279B            | 279B                       | 369B2           | 398B                       | 802E            | 802E                       |
| 205C2        | 205C2                      | 279B2           | 279B                       | 378             | 8378                       | 808             | 802E                       |
| 205D2        | 205D2                      | 280B            | 279B                       | 379             | 379A                       | 808E            | 802E                       |
| 219          | 278                        | 280B2           | 279B                       | 379A            | 379A                       | 808F            | 802E                       |
| 223B         | 223B2                      | 280C            | 280C2                      | 379B            | 379B2                      | 819F            | 819G                       |
| 223B2        | 223B2                      | 280C2           | 280C2                      | 386B            | 386B                       | 819G            | 819G                       |
| 223C         | 223C3                      | 280C3           | 280C2                      | 386B2           | 386B                       | 820             | 802E                       |
| 223C2        | 223C3                      | 280D            | 359D                       | 386C            | 280C2                      | 820G            | 802E                       |
| 223C3        | 223C3                      | 280D2           | 359D                       | 386C2           | 280C2                      | 865             | 865                        |
| 223D         | 194D2                      | 280D3           | 359D                       | 386C3           | 280C2                      | 1400            | 1480                       |
| 223D2        | 194D2                      | 284             | 6081                       | 387A            | 570A                       | 1480            | 1480                       |
| 223D3        | 194D2                      | 284A            | 6081                       | 387B            | 570C2                      | 3092            | 8304                       |
| 233B         | 233B                       | 286             | 379A                       | 398             | 398A                       | 3179            | 8304                       |
| 233B2        | 233B                       | 286A            | 379A                       | 398A            | 398A                       | 3400            | 3480                       |
| 233C         | 233C2                      | 286B2           | 379B2                      | 398B2           | 398B                       | 3452            | 8304                       |
| 233C2        | 233C2                      | 290             | 398A                       | 400             | 3480                       | 3480            | 3480                       |
| 233C3        | 233C2                      | 290A            | 398A                       | 440             | 379A                       | 6081            | 6081                       |
| 233D         | 359D                       | 290B            | 398B                       | 440A            | 379A                       | 6179            | 8304                       |
| 233D2        | 359D                       | 290B2           | 398B                       | 451             | 8107                       | 7070            | 7107                       |
| 233D3        | 359D                       | 290C            | 570C2                      | 480             | 3480                       | 7081            | 6031                       |

PUTNAM COUNTY, ILLINOIS --Continued

| Field symbol | Recom- mended symbol |
|--------------|----------------------|--------------|----------------------|--------------|----------------------|--------------|----------------------|
| 7107         | 7107                 |              |                      |              |                      |              |                      |
| 7292         | 7107                 |              |                      |              |                      |              |                      |
| 7302         | 7302                 |              |                      |              |                      |              |                      |
| 7304         | 8304                 |              |                      |              |                      |              |                      |
| 7400         | 7107                 |              |                      |              |                      |              |                      |
| 7480         | 7107                 |              |                      |              |                      |              |                      |
| 8070         | 8107                 |              |                      |              |                      |              |                      |
| 8076         | 8107                 |              |                      |              |                      |              |                      |
| 8077         | 8077                 |              |                      |              |                      |              |                      |
| 8107         | 8107                 |              |                      |              |                      |              |                      |
| 8179         | 8304                 |              |                      |              |                      |              |                      |
| 8304         | 8304                 |              |                      |              |                      |              |                      |
| 8378         | 8378                 |              |                      |              |                      |              |                      |
| 8400         | 3480                 |              |                      |              |                      |              |                      |
| 8451         | 8107                 |              |                      |              |                      |              |                      |
| 8480         | 3480                 |              |                      |              |                      |              |                      |

NOTES TO ACCOMPANY THE  
CLASSIFICATION AND CORRELATION  
OF THE SOILS OF  
PUTNAM COUNTY, ILLINOIS  
BY  
JOHN C. DOLL

ADE

These soils in map unit 98B have less clay in the argillic horizon (lamella) than is typical for the series. They are close to being in the "sandy" family class, but without data cannot say for sure. Lamella will provide enough AWC for cropland.

ALVIN

AMBRAW

BIRKBECK

BLOOMFIELD

These soils in map unit 53B have a slightly thinner upper E horizon and the lamella are closer to the surface than allowed in the series. They are not considered taxadjuncts.

BLOUNT

CAMDEN

CATLIN

These soils in map unit 171C2 are taxadjuncts because the dark surface soil is less than 10 inches thick. These taxadjuncts are Mollic Hapludolfs, fine-silty, mixed, mesic.

DAKOTA

These soils in map unit 379B2 are taxadjuncts because they have lamella in the 2C horizon and have a dark surface soil less than 10 inches thick. These taxadjuncts are Mollic Ochraqualfs, fine-loamy over sandy or sandy skeletal, mixed, mesic.

DOWNS

The C horizon has a slightly higher reaction and is calcareous. These soils are not considered to be taxadjuncts.

DRUMMER

FAYETTE

FLANAGAN

These soils are taxadjuncts because they have less clay in the subsoil than is typical. These taxadjuncts are Aquic Argiudolls, fine-silty, mixed, mesic.

HARPSTER

HENNEPIN

The dark Ap layer is more than 1/3 the solum thickness and is a mollic epipedon. There is no known series. They are not considered taxadjuncts even though they classify as Typic Hapludolls, fine-loamy, mixed, mesic.

HUNTSVILLE

These soils have a loam texture in one subhorizon above a depth of 40 inches. The sand is very fine and the profile is dominantly silt loam to 60 inches. Also, the solum is greater than 60 inches thick. These soils are not considered taxadjuncts.

LANDES

LANIER

LITTLETON VARIANT

These soils are on rarely flooded alluvial fans and terraces. They have an argillic horizon. They have historically been recognized by the University of Illinois and by others as "Muscatine-like" soils.

MARTINSVILLE

These soils in map unit 570A are taxadjuncts because they have contrasting particle size classes within a depth of 40 inches. They have enough loamy strata to maintain the AWC for cropland. The taxadjuncts are Typic Hapludalfs, coarse-loamy over sandy or sandy-skeletal, mixed, mesic.

METEA

In map unit 205D2, the 2Bt and 2C horizons have a hue of 7.5YR. In map unit 205C2, the upper part of the E horizon has slightly more clay. These soils are not considered taxadjuncts.

MIAMI

These soils in map unit 27D2 have a slightly higher content of clay in the C horizon. They are not considered taxadjuncts.

MORLEY

MOUNDPRAIRIE

MUSCATINE

These soils are taxadjuncts because they have a 20% clay increase in the subsoil. They classify as Aquic Argiudolls, fine-silty, mixed, mesic.

ORIO

These soils have a mollic epipedon and classify as Argiaquic Argialbolls, fine-loamy, mixed, mesic. There are no known series in this family.

ORTHENTS

RIDGEVILLE

RODMAN

These soils are calcareous throughout but are not considered taxadjuncts.

ROZETTA

SABINA

SABLE

SAWMILL

SAYBROOK

These soils are taxadjuncts because the dark surface soil is less than 10 inches thick. The taxadjuncts classify as Mollic Argiudolls, fine-silty, mixed, mesic.

STRONGHURST

These soils have a higher reaction in the lower part of the solum but are not considered taxadjuncts.

TAMA

These soils in map unit 36C2 are taxadjuncts because they have a dark surface soil less than 10 inches thick. They classify as Mollic Argiudolls, fine-silty, mixed, mesic.

TERRIL

These soils have higher reaction throughout. The competing Du Page series was considered but it does not flood. The Terril interpretations fit these soils.

VANMETER

These soils have 5Y hue in the lower solum and have a thicker Bw horizon than are allowed in the series. They are not taxadjuncts.

VARNA

These soils are taxadjuncts because they have a dark surface soil less than 10 inches thick. They classify as Mollic Hapludalfs, fine, illitic, mesic.

WAUPECAN

WEA

These soils have high AWC. In map unit 3988, the lower part of the solum is very gravelly and the substratum is loamy and not sandy.

WORTHEN

These soils have one subhorizon in the subsoil that is silty clay loam and one subhorizon that is loam. The profile is dominantly silt loam to below 60 inches. These soils are not taxadjuncts.

## CLASSIFICATION OF THE SOILS

| Soil name             | Family or higher taxonomic class  |
|-----------------------|---|
| Ade-----              | Coarse-loamy, mixed, mesic Psammentic Arciudolls                          |
| Alvin-----            | Coarse-loamy, mixed, mesic Typic HapludalFs                               |
| Ambrax-----           | Fine-loamy, mixed, mesic Fluvaquentic<br>Haplaquolls                      |
| Birkbeck-----         | Fine-silty, mixed, mesic Typic HapludalFs                                 |
| Bloomfield---         | Sandy, mixed, mesic Psammentic HapludalFs                                 |
| Blount-----           | Fine, illitic, mesic Aeric OchraqualFs                                    |
| Camden-----           | Fine-silty, mixed, mesic Typic HapludalFs                                 |
| *Catlin-----          | Fine-silty, mixed, mesic Typic Argiudolls                                 |
| *Dakota-----          | Fine-loamy over sandy or sandy-skeletal, mixed,<br>mesic Typic Argiudolls |
| Downs-----            | Fine-silty, mixed, mesic Mollic HapludalFs                                |
| Drummer-----          | Fine-silty, mixed, mesic Typic Haplaquolls                                |
| Fayette-----          | Fine-silty, mixed, mesic Typic HapludalFs                                 |
| *Flanagan-----        | Fine, montmorillonitic, mesic Aquic Argiudolls                            |
| Harster-----          | Fine-silty, mesic Typic Calciquolls                                       |
| Hennepin-----         | Fine-loamy, mixed, mesic Typic Eutrochrepts                               |
| Huntsville---         | Fine-silty, mixed, mesic Cumulic Hapludolls                               |
| Landes-----           | Coarse-loamy, mixed, mesic Fluventic Hapludolls                           |
| Lanier-----           | Sandy-skeletal, mixed, mesic Fluventic<br>Hapludolls                      |
| Littleton<br>variant. | Fine-silty, mixed, mesic Aquic Argiudolls                                 |
| Martinsville          | Fine-loamy, mixed, mesic Typic HapludalFs                                 |
| Metea-----            | Loamy, mixed, mesic Arenic HapludalFs                                     |
| Miami-----            | Fine-loamy, mixed, mesic Typic HapludalFs                                 |
| Porley-----           | Fine, illitic, mesic Typic HapludalFs                                     |
| Youndprairie          | Fine-silty, mixed (calcareous), mesic Mollic<br>Fluvaquents               |
| *Muscatine----        | Fine-silty, mixed, mesic Aquic Hapludolls                                 |
| Orio-----             | Fine-loamy, mixed, mesic Mollic OchraqualFs                               |
| Orthents.             |   |
| Ridgeville---         | Coarse-loamy, mixed, mesic Aquic Arciudolls                               |
| Rooman-----           | Sandy-skeletal, mixed, mesic Typic Hapludolls                             |
| Rozetta-----          | Fine-silty, mixed, mesic Typic HapludalFs                                 |
| Sabina-----           | Fine, montmorillonitic, mesic Aeric OchraqualFs                           |
| Sable-----            | Fine-silty, mixed, mesic Typic Haplaquolls                                |
| Sawmill-----          | Fine-silty, mixed, mesic Cumulic Haplaquolls                              |
| *Saybrook-----        | Fine-silty, mixed, mesic Typic Argiudolls                                 |
| Stronchurst           | Fine-silty, mixed, mesic Aeric OchraqualFs                                |
| *Tama-----            | Fine-silty, mixed, mesic Typic Arciudolls                                 |
| Terril-----           | Fine-loamy, mixed, mesic Cumulic Hapludolls                               |
| Vanneter-----         | Fine, illitic, mesic Typic Eutrochrepts                                   |

CLASSIFICATION OF THE SOILS--Continued

| Soil name     | Family or higher taxonomic class            |
|---------------|---|
| *Varna-----   | Fine, illitic, mesic Typic Argiudolls       |
| Waupecan----- | Fine-silty, mixed, mesic Typic Argiudolls   |
| Wea-----      | Fine-loamy, mixed, mesic Typic Argiudolls   |
| worthen-----  | Fine-silty, mixed, mesic Cumulic Hapludolls |