

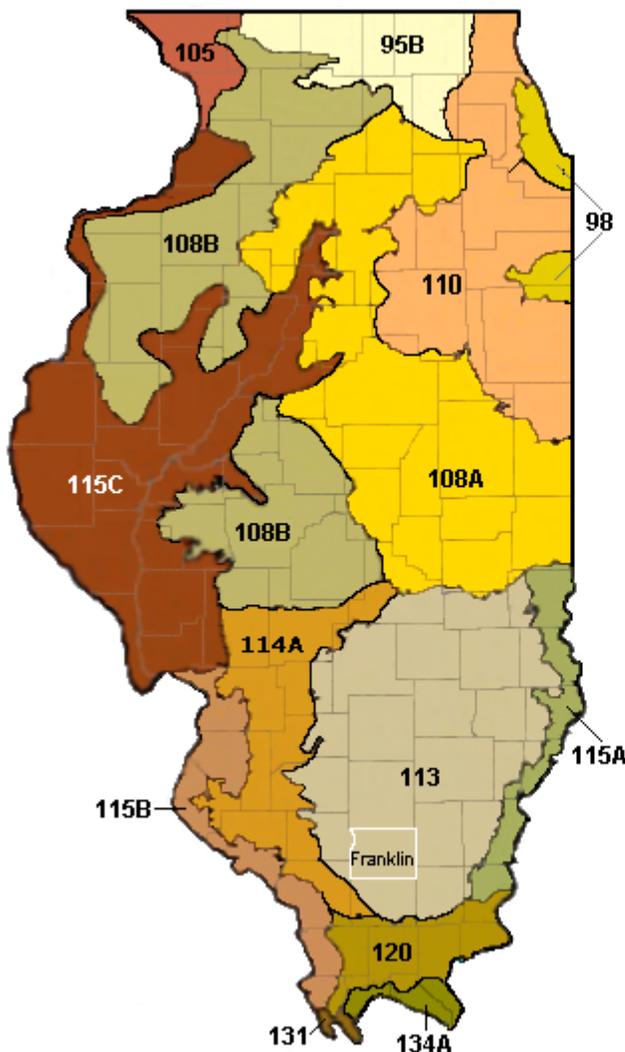
United States
Department of
Agriculture

Natural Resources
Conservation Service

East Central Glaciated
Regional MLRA
Soil Survey Office
Indianapolis, IN

Classification and Correlation of Soils In Franklin County, Illinois

(a subset of MLRA 113)



LEGEND
95B - Southern Wisconsin and Northern Illinois Drift Plain
98 - Southern Michigan and Northern Indiana Drift Plain
105 - Northern Mississippi Valley Loess Hills
108A and B - Illinois and Iowa Deep Loess and Drift
110 - Northern Illinois and Indiana Heavy Till Plain
113 - Central Claypan Area
114 - Southern Illinois and Indiana Thin Loess and Till Plain
115A, B, and C - Central Mississippi Valley Wooded Slopes
120 - Kentucky and Indiana Sandstone and Shale Hills and Valleys
131 - Southern Mississippi Valley Alluvium
134A - Southern Mississippi Valley Silty Uplands

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United States Department of Agriculture

Natural Resources Conservation Service

**Classification and Correlation
of the Soils of
Franklin County, Illinois**

A Subset of MLRA 113

November 2005

This correlation was prepared by John C. Doll, Soil Scientist, NRCS, Champaign, Illinois, Gary Struben, Soil Data Quality Specialist (SDQS), MLRA Region 11, Indianapolis, Indiana, Sam Indorante, MLRA Project Leader, Dwayne Williams, NRCS, Soil Scientist, and Bryan Fitch, NRCS, Soil Scientist. Jacey Jones, NRCS, Soil Scientist, Jon Bathgate, NRCS, GIS Specialist; Matt McCauley, NRCS Resource Soil Scientist, provided information relating to the recorrelation of the soils in Franklin County, a subset of MLRA 113. A correlation conference was held from August 23 to August 25, 2005. Those participating in the conference were the same people previously listed and Dena Marshall, NRCS, Soil Scientist, Indiana.

This correlation is based on decisions made at that conference. Decisions were based on the documentation of field investigations, transect data, field notes, pedon descriptions, survey field notes, special studies and laboratory data, published Franklin County soil maps, the descriptive legend in the “Classification and Correlation of the Soils of Franklin and Jefferson Counties, Illinois” – March 1997, and the text and tables in the published Soil Survey of Franklin and Jefferson Counties, Illinois Report (Issued 2003).

Headnote for detailed soil survey legend:

This update of Franklin County, Illinois is a subset of the Soil Survey of Major Land Resource Area (MLRA) 113. Map units and their symbols and special and conventional symbols are consistent between subsets that are being updated. Most mapunit symbols consist of a combination of numbers and letters. The initial numbers represent the kind of soil. A final number of 2 following the slope letter indicates that the soil is moderately eroded, and a number 3 indicates that it is severely eroded. Absence of a number following the slope class indicates that the soil is slightly eroded or non-eroded. Map units without a capital letter are miscellaneous areas.

Soil Correlation of Franklin County, Illinois

(This legend represents the majority of the standard correlations that took place with this update. With certain polygons, however, correlations were made outside this legend that were based on field investigations, enhanced photo tones, changes in land use, and/or refined soil-landscape relationships.)

Field symbols	Field map unit name	Publication symbol	Approved map unit name
2 2A	Cisne silt loam Cisne silt loam, 0 to 2 percent slopes	2A	Cisne silt loam, 0 to 2 percent slopes
3A	Hoyleton silt loam, 0 to 2 percent slopes	3A	Hoyleton silt loam, 0 to 2 percent slopes
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded	3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
4B2	Richview silt loam, 2 to 5 percent slopes, eroded	4B2	Richview silt loam, 2 to 5 percent slopes, eroded
4C2	Richview silt loam, 5 to 10 percent slopes, eroded	4C2	Richview silt loam, 5 to 10 percent slopes, eroded
5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded	5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded
8D2 8D3	Hickory silt loam, 10 to 18 percent slopes, eroded Hickory clay loam, 10 to 18 percent slopes, severely eroded	8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
10C	Plumfield silty clay loam, 5 to 10 percent slopes	10C	Plumfield silty clay loam, 5 to 10 percent slopes
10D	Plumfield silty clay loam, 10 to 18 percent slopes	10D	Plumfield silty clay loam, 10 to 18 percent slopes
12 12A	Wynoose silt loam Wynoose silt loam, 0 to 2 percent slopes	12A	Wynoose silt loam, 0 to 2 percent slopes
13A	Bluford silt loam, 0 to 2 percent slopes	13A	Bluford silt loam, 0 to 2 percent slopes
13B2	Bluford silt loam, 2 to 5 percent slopes, eroded	13B2	Bluford silt loam, 2 to 5 percent slopes, eroded
14B	Ava silt loam, 2 to 5 percent slopes	14B	Ava silt loam, 2 to 5 percent slopes
14B2	Ava silt loam, 2 to 5 percent slopes, eroded	14B2	Ava silt loam, 2 to 5 percent slopes, eroded
14C2	Ava silt loam, 5 to 10 percent slopes, eroded	14C2	Ava silt loam, 5 to 10 percent slopes, eroded
15D3	Parke silty clay loam, 10 to 18 percent slopes, severely eroded	15D3	Parke silty clay loam, 10 to 18 percent slopes, severely eroded
84 84A	Okaw silt loam Okaw silt loam, 0 to 2 percent slopes	84A	Okaw silt loam, 0 to 2 percent slopes
109 109A	Racoon silt loam Racoon silt loam, 0 to 2 percent slopes	109A	Racoon silt loam, 0 to 2 percent slopes

Soil Correlation of Franklin County, Illinois - continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
122B	Colp silt loam, 2 to 5 percent slopes	122B	Colp silt loam, 2 to 5 percent slopes
122B2	Colp silt loam, 2 to 5 percent slopes, eroded	122B2	Colp silt loam, 2 to 5 percent slopes, eroded
122C3	Colp silty clay loam, 5 to 10 percent slopes, severely eroded	122C3	Colp silty clay loam, 5 to 10 percent slopes, severely eroded
122D3	Colp silty clay loam, 10 to 18 percent slopes, severely eroded	122D3	Colp silty clay loam, 10 to 18 percent slopes, severely eroded
287 287A	Chauncey silt loam Chauncey silt loam, 0 to 2 percent slopes	287A	Chauncey silt loam, 0 to 2 percent slopes
301B 301B	Grantsburg silt loam 2 to 5 percent slopes Grantsburg silt loam, 2 to 5 percent slopes	301B	Grantsburg silt loam, 2 to 5 percent slopes
301C3	Grantsburg silty clay loam, 5 to 10 percent slopes, severely eroded	301C3	Grantsburg silty clay loam, 5 to 10 percent slopes, severely eroded
337A	Creal silt loam, 0 to 2 percent slopes	337A	Creal silt loam, 0 to 2 percent slopes
338A	Hurst silt loam, 0 to 2 percent slopes	338A	Hurst silt loam, 0 to 2 percent slopes
339D	Wellston silt loam, 10 to 18 percent slopes	340D3	Zanesville silty clay loam, 10 to 18 percent slopes, severely eroded
340D3	Zanesville silty clay loam, 10 to 18 percent slopes, severely eroded		
376 376A	Cisne silt loam, bench Cisne silt loam, bench, 0 to 2 percent slopes	376A	Cisne silt loam, bench, 0 to 2 percent slopes
377A	Hoyleton silt loam, bench, 0 to 2 percent slopes	377A	Hoyleton silt loam, bench, 0 to 2 percent slopes
377B2	Hoyleton silt loam, bench, 2 to 5 percent slopes, eroded	377B2	Hoyleton silt loam, bench, 2 to 5 percent slopes, eroded
421G	Kell silt loam, 35 to 60 percent slopes	421G	Kell silt loam, 35 to 60 percent slopes
518B	Rend silt loam, 2 to 5 percent slopes	518B	Rend silt loam, 2 to 5 percent slopes
518B2	Rend silt loam, 2 to 5 percent slopes, eroded	518B2	Rend silt loam, 2 to 5 percent slopes, eroded
518C2	Rend silt loam, 5 to 10 percent slopes, eroded	518C2	Rend silt loam, 5 to 10 percent slopes, eroded
533	Urban land	533	Urban land
536	Dumps, mine	536	Dumps, mine
583B	Pike silt loam, 2 to 5 percent slopes	583B	Pike silt loam, 2 to 5 percent slopes

Soil Correlation of Franklin County, Illinois - continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
583C2	Pike silt loam, 5 to 10 percent slopes, eroded	583C2	Pike silt loam, 5 to 10 percent slopes, eroded
639	Wynoose silt loam, bench	639A	Wynoose silt loam, bench, 0 to 2 percent slopes
639A	Wynoose silt loam, bench, 0 to 2 percent slopes		
640A	Bluford silt loam, bench, 0 to 2 percent slopes	640A	Bluford silt loam, bench, 0 to 2 percent slopes
802B	Orthents, loamy, undulating	802B	Orthents, loamy, undulating
802F	Orthents, loamy, hilly and very hilly	802F	Orthents, loamy, hilly and very hilly
823B 823B	Schuline silt loam, 2 to 5 percent slopes Schuline silt loam, 1 to 5 percent slopes	823B	Schuline silt loam, 1 to 5 percent slopes
866	Dumps, slurry	866	Dumps, slurry
871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes	871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes
8F	Hickory silt loam, 18 to 35 percent slopes	908F	Hickory-Kell silt loams, 18 to 35 percent slopes
8G 908F	Hickory silt loam, 35 to 60 percent slopes Hickory-Kell silt loams, 18 to 35 percent slopes		
7C2 927D3	Atlas silt loam, 5 to 10 percent slopes, eroded Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded	927D3	Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
1085 1085A	Jacob silty clay, undrained, frequently flooded Jacob silty clay, undrained, 0 to 2 percent slopes, frequently flooded	1085A	Jacob silty clay, undrained, 0 to 2 percent slopes, frequently flooded
1108 1108A	Bonnie silt loam, undrained, frequently flooded Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded	1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded
3072 3072A	Sharon silt loam, frequently flooded Sharon silt loam, 0 to 2 percent slopes, frequently flooded	3072A	Sharon silt loam, 0 to 2 percent slopes, frequently flooded
3085 3085A	Jacob silty clay, frequently flooded Jacob silty clay, 0 to 2 percent slopes, frequently flooded	3085A	Jacob silty clay, 0 to 2 percent slopes, frequently flooded
3108 3108A	Bonnie silt loam, frequently flooded Bonnie silt loam, 0 to 2 percent slopes, frequently flooded	3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded

Soil Correlation of Franklin County, Illinois - continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
3382	Belknap silt loam, frequently flooded	3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded		
3422	Cape silty clay loam, frequently flooded	3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded		
MW	Miscellaneous water	MW	Miscellaneous water
W<40	Water less than 40 acres		
W	water	W	water
W<40	Water less than 40 acres		
W>40	Water greater than 40 acres		

Series Established By This Correlation

None

Series Added To The March 2003 Legend

None

Series Dropped From March 2003 Legend

Frondorf, Gosport, Orion, Wilbur, Wirt, and Wellston (Map units of these series were mapped in Jefferson County but were not in Franklin County).

Series Made Inactive

None

Cooperators' Name and Credits

For the front cover and half-title page:

United States Department of Agriculture

Natural Resources Conservation Service

In Cooperation with Illinois Agricultural Experiment Station

The credits to be given on page ii of the published soil survey are as follows: “This survey was made cooperatively by the Natural Resources Conservation Service and the Illinois Agricultural Experiment Station. It is part of the technical assistance furnished to the Franklin County Soil and Water Conservation District. The cost was shared by the Franklin County Board and the Illinois Department of Agriculture.”

Prior Soil Survey Publications

The last published soil survey of Franklin County was as part of the initial mapping and as reported in the Soil Survey of Franklin and Jefferson Counties, Illinois issued in 2003. Reference to the prior soil survey will be included in the literature citation of the manuscript. This update replaces the Franklin County portion of the Soil Survey of Franklin and Jefferson Counties, Illinois. This update provides additional tabular data, updated soil interpretations and updates the digital 1:12,000 scale soil maps SSURGO certified on December 30, 2004.

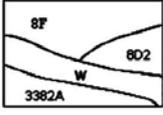
Instructions for Map Compilation, Map Finishing, and Digitizing

Map compilation digitizing and map finishing have been completed for this soil survey.

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.

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL																																																																																																																																									
SOIL SURVEY FEATURES		CULTURAL FEATURES (Optional)		HYDROGRAPHIC FEATURES (Optional)																																																																																																																																										
<p><input checked="" type="checkbox"/> SOIL DELINEATIONS AND LABELS</p> <div style="text-align: center;">  </div> <p>STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Bedrock escarpment [Symbol] <input checked="" type="checkbox"/> Non-bedrock escarpment [Symbol] Gully [Symbol] Level Single Side Slope [Symbol] <input checked="" type="checkbox"/> Short steep slope [Symbol] Blowout [Symbol] Borrow pit [Symbol] Clay spot [Symbol] <input checked="" type="checkbox"/> Closed depression [Symbol] Gravel pit [Symbol] Gravelly spot [Symbol] Landfill [Symbol] Level flow [Symbol] <input checked="" type="checkbox"/> Marsh or swamp [Symbol] <input checked="" type="checkbox"/> Mine or quarry [Symbol] Miscellaneous water [Symbol] Perennial water [Symbol] <input checked="" type="checkbox"/> Rock outcrop [Symbol] <input checked="" type="checkbox"/> Saline spot [Symbol] <input checked="" type="checkbox"/> Sandy spot [Symbol] <input checked="" type="checkbox"/> Severely eroded spot [Symbol] Sinkhole [Symbol] Slide or slip [Symbol] <input checked="" type="checkbox"/> Sodic spot [Symbol] <input checked="" type="checkbox"/> Spoil area [Symbol] Stony spot [Symbol] Very stony spot [Symbol] <input checked="" type="checkbox"/> Wet spot [Symbol] 		<p>BOUNDARIES</p> <ul style="list-style-type: none"> National, state or province [Symbol] <input checked="" type="checkbox"/> County or parish [Symbol] Minor civil division [Symbol] Reservation (national or state forest or park) [Symbol] Limit of soil survey (label) and/or denied access areas [Symbol] <input checked="" type="checkbox"/> Field sheet matchline and nestline [Symbol] Public Land Survey System Section Boundary [Symbol] <input checked="" type="checkbox"/> Public Land Survey System Section Corner Tics [Symbol] <p>TRANSPORTATION</p> <ul style="list-style-type: none"> Divided road [Symbol] Normally not shown Other road [Symbol] Normally not shown Trail [Symbol] Normally not shown <p>ROAD EMBLEMS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Interstate [Symbol] <input checked="" type="checkbox"/> Federal [Symbol] <input checked="" type="checkbox"/> State [Symbol] County, town or ranch [Symbol] <p>LOCATED OBJECTS</p> <ul style="list-style-type: none"> Airport, airfield [Symbol] Cemetery [Symbol] Church [Symbol] Farmstead, house (omit in urban areas) [Symbol] Lighthouse [Symbol] Located object (label) [Symbol] Lookout tower [Symbol] Oil and/or natural gas well [Symbol] Other Religion (label) [Symbol] School [Symbol] Soil sample site (compiled only not published) [Symbol] Tank (label) [Symbol] Windmill [Symbol] Subsided Area [Symbol] 		<ul style="list-style-type: none"> Drainage end (indicates direction of flow) [Symbol] Perennial stream [Symbol] Intermittent stream [Symbol] <input checked="" type="checkbox"/> Unclassified stream [Symbol] Perennial drainage or irrigation ditch [Symbol] Intermittent drainage or irrigation ditch [Symbol] <input checked="" type="checkbox"/> Unclassified drainage or irrigation ditch [Symbol] Flood pool line [Symbol] Spring [Symbol] Well, artesian [Symbol] Well, irrigation [Symbol] 																																																																																																																																										
<p>AD HOC FEATURES (Describe on back)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>LABEL</th> <th>SYMBOL ID</th> <th>SYMBOL</th> <th>LABEL</th> <th>SYMBOL ID</th> <th>SYMBOL</th> </tr> </thead> <tbody> <tr><td>---</td><td>1</td><td><</td><td>---</td><td>23</td><td>⊙</td></tr> <tr><td>---</td><td>2</td><td>⊠</td><td>---</td><td>24</td><td>⊙</td></tr> <tr><td>---</td><td>3</td><td>⊠</td><td>---</td><td>25</td><td>⊙</td></tr> <tr><td>---</td><td>4</td><td>⊠</td><td>---</td><td>26</td><td>⊙</td></tr> <tr><td>---</td><td>5</td><td>⊠</td><td>---</td><td>27</td><td>⊙</td></tr> <tr><td>---</td><td>6</td><td>⊠</td><td>---</td><td>28</td><td>⊙</td></tr> <tr><td>---</td><td>7</td><td>⊠</td><td>---</td><td>29</td><td>⊙</td></tr> <tr><td>---</td><td>8</td><td>⊠</td><td>---</td><td>30</td><td>⊠</td></tr> <tr><td>---</td><td>9</td><td>⊠</td><td>---</td><td>31</td><td>⊙</td></tr> <tr><td>---</td><td>10</td><td>⊠</td><td>---</td><td>32</td><td>⊙</td></tr> <tr><td>---</td><td>11</td><td>⊠</td><td>---</td><td>33</td><td>⊙</td></tr> <tr><td>---</td><td>12</td><td>⊠</td><td>---</td><td>34</td><td>⊙</td></tr> <tr><td>---</td><td>13</td><td>✓</td><td><input checked="" type="checkbox"/> S U B</td><td>35</td><td>⊙</td></tr> <tr><td>---</td><td>14</td><td>⊠</td><td>---</td><td>36</td><td>+</td></tr> <tr><td>---</td><td>15</td><td>⊠</td><td>---</td><td>37</td><td>+</td></tr> <tr><td>---</td><td>16</td><td>⊠</td><td>---</td><td>38</td><td>⊙</td></tr> <tr><td>---</td><td>17</td><td>⊠</td><td>---</td><td>39</td><td>⊙</td></tr> <tr><td>---</td><td>18</td><td>⊠</td><td><input checked="" type="checkbox"/> O B S</td><td>40</td><td>⊠</td></tr> <tr><td>---</td><td>19</td><td>⊠</td><td>---</td><td>41</td><td>+</td></tr> <tr><td>---</td><td>20</td><td>⊠</td><td>---</td><td>42</td><td>⊠</td></tr> <tr><td>---</td><td>21</td><td>⊠</td><td>---</td><td>43</td><td><</td></tr> <tr><td>---</td><td>22</td><td>⊠</td><td>---</td><td>44</td><td>⊙</td></tr> </tbody> </table>		LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	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	✓	<input checked="" type="checkbox"/> S U B	35	⊙	---	14	⊠	---	36	+	---	15	⊠	---	37	+	---	16	⊠	---	38	⊙	---	17	⊠	---	39	⊙	---	18	⊠	<input checked="" type="checkbox"/> O B S	40	⊠	---	19	⊠	---	41	+	---	20	⊠	---	42	⊠	---	21	⊠	---	43	<	---	22	⊠	---	44	⊙			
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DEFINITIONS OF SPECIAL FEATURES for Franklin County, Illinois

Label	Name	Description
DEP	Closed depression	A shallow, saucer-shaped area that is slightly lower on the landscape than the surrounding area and is without a natural outlet for surface drainage. Typically 0.25 to 3.0 acres.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface soil has been lost from accelerated erosion. Typically 0.25 to 3.0 acres.
ESB	Bedrock escarpment	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	Non-bedrock escarpment	A relatively continuous and steep slope or cliff produced by erosion, but can be produced by faulting, breaking the general continuity of more gently sloping land surfaces. Exposed nonbedrock material is nonsoil or very shallow, poorly developed soil.
GRA	Gravelly spot	A spot where the surface layer has more than 35 percent, by volume, rock fragments that are mostly less than 3 inches in diameter in a area with less than 15 percent fragments. Typically 0.25 to 3.0 acres.
GUL	Gully	A small channel with steep sides cut by running water through which water ordinarily runs only after a rain, or after ice or snowmelts. It generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.
MAR	Marsh or swamp	A water saturated, very poorly drained area, intermittently or permanently covered by water. Sedges, cattails, and rushes dominate swamps. Not used in map units where the named components are poorly or very poorly drained. Typically 0.25 to 3.0 acres.
MPI	Mine or quarry	An open excavation from which soil and underlying material are removed and bedrock is exposed. Also denotes surface openings to underground mines. Typically 0.25 to 3.0 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 0.25 to 3.0 acres.
SAN	Sandy spot	Surface layer with sand content greater than 75 percent sand in areas where the surface layer of the named soils in the surrounding map unit have less than about 25 percent sand. Typically 0.25 to 3.0 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least 2 slope classes steeper than the slope class of the surrounding map unit.
SOD	Sodic spot	An area where the surface layer has a sodium adsorption ratio that is at least 10 more than the surface layer of the named soils in the surrounding map unit which have a sodium adsorption ratio of 5 or less. Typically 0.25 to 3.0 acres.
SPO	Spoil area	A pile of earthy materials, either smoothed or uneven, resulting from human activity. Typically 0.25 to 3.0 acres.
WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.25 to 3.0 acres.
SUB	Subsided spot	An area that is lower than the soils in the surrounding map units due to subsurface coal mining. The areas may be farmed but may pond water or become an obstruction in the field. Typically 0.25 to 3.0 acres.
OBS	Oil Brine spot	An area that does not support plant growth due to the inundation of soil brine or oil from oil wells. Typically .25 to 3 acres.
SUB	Subsided Area	An area greater than 3 acres that has been lowered due to subsurface mining. Water table and slope may have changed from surrounding similar soils. Area may have been mitigated to improve drainage and maintain previous use.

General Soil Map Units

The General Soil Map will not be updated as part of this correlation.

Soil Mapunit Symbol Conversion Legend of Franklin County, Illinois

(This legend represents the majority of the standard correlations that took place with this update. With certain polygons, however, correlations were made outside this legend which were based on field investigations, enhanced photo tones, changes in land use, and/or refined soil-landscape relationships.)

Field Symbol	Publication Symbol
2	2A
2A	2A
3A	3A
3B2	3B2
4B2	4B2
4C2	4C2
5C3	5C3
7C2	927D3
8D2	8D3
8D3	8D3
8F	908F
8G	908F
10C	10C
10D	10D
12	12A
12A	12A
13A	13A
13B2	13B2
14B	14B
14B2	14B2

Field Symbol	Publication Symbol
14C2	14C2
15D3	15D3
84	84A
84A	84A
109	109A
109A	109A
122B	122B
122B2	122B2
122C3	122C3
122D3	122D3
287	287A
287A	287A
301B	301B
301C3	301C3
337A	337A
338A	338A
339D	340D3
340D3	340D3
376	376A
376A	376A

Field Symbol	Publication Symbol
377A	377A
377B2	377B2
421G	421G
518B	518B
518B2	518B2
518C2	518C2
533	533
536	536
583B	583B
583C2	583C2
639	639A
639A	639A
640A	640A
802B	802B
802F	802F
823B	823B
866	866
871D	871D
908F	908F
927D3	927D3

Field Symbol	Publication Symbol
1085	1085A
1085A	1085A
1108	1108A
1108A	1108A
3072	3072A
3072A	3072A
3085	3085A
3085A	3085A
3108	3108A
3108A	3108A
3382	3382A
3382A	3382A
3422	3422A
3422A	3422A
MW	MW
W	W
W<40	MW
W<40	W
W>40	W

ALPHABETIC SOIL MAP LEGEND of Franklin County, Illinois

Map Symbol	Soil Name
14B	Ava silt loam, 2 to 5 percent slopes
14B2	Ava silt loam, 2 to 5 percent slopes, eroded
14C2	Ava silt loam, 5 to 10 percent slopes, eroded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
927D3	Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded
13A	Bluford silt loam, 0 to 2 percent slopes
13B2	Bluford silt loam, 2 to 5 percent slopes, eroded
640A	Bluford silt loam, bench, 0 to 2 percent slopes
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
287A	Chauncey silt loam, 0 to 2 percent slopes
2A	Cisne silt loam, 0 to 2 percent slopes
376A	Cisne silt loam, bench, 0 to 2 percent slopes
122B	Colp silt loam, 2 to 5 percent slopes
122B2	Colp silt loam, 2 to 5 percent slopes, eroded
122C3	Colp silty clay loam, 5 to 10 percent slopes, severely eroded
122D3	Colp silty clay loam, 10 to 18 percent slopes, severely eroded
337A	Creal silt loam, 0 to 2 percent slopes
536	Dumps, mine
866	Dumps, slurry
301B	Grantsburg silt loam, 2 to 5 percent slopes
301C3	Grantsburg silty clay loam, 5 to 10 percent slopes, severely eroded
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
908F	Hickory-Kell silt loams, 18 to 35 percent slopes
3A	Hoyleton silt loam, 0 to 2 percent slopes
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
377A	Hoyleton silt loam, bench, 0 to 2 percent slopes
377B2	Hoyleton silt loam, bench, 2 to 5 percent slopes, eroded
338A	Hurst silt loam, 0 to 2 percent slopes
3085A	Jacob silty clay, 0 to 2 percent slopes, frequently flooded
1085A	Jacob silty clay, undrained, 0 to 2 percent slopes, frequently flooded
421G	Kell silt loam, 35 to 60 percent slopes
871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes
MW	Miscellaneous water
84A	Okaw silt loam, 0 to 2 percent slopes
802F	Orthents, loamy, hilly and very hilly
802B	Orthents, loamy, undulating
15D3	Parke silty clay loam, 10 to 18 percent slopes, severely eroded
583B	Pike silt loam, 2 to 5 percent slopes
583C2	Pike silt loam, 5 to 10 percent slopes, eroded
10C	Plumfield silty clay loam, 5 to 10 percent slopes
10D	Plumfield silty clay loam, 10 to 18 percent slopes
109A	Raccoon silt loam, 0 to 2 percent slopes
518B	Rend silt loam, 2 to 5 percent slopes
518B2	Rend silt loam, 2 to 5 percent slopes, eroded
518C2	Rend silt loam, 5 to 10 percent slopes, eroded
4B2	Richview silt loam, 2 to 5 percent slopes, eroded
4C2	Richview silt loam, 5 to 10 percent slopes, eroded
823B	Schuline silt loam, 1 to 5 percent slopes
3072A	Sharon silt loam, 0 to 2 percent slopes, frequently flooded
533	Urban land
W	Water
12A	Wynoose silt loam, 0 to 2 percent slopes
639A	Wynoose silt loam, bench, 0 to 2 percent slopes
340D3	Zanesville silty clay loam, 10 to 18 percent slopes, severely eroded

NUMERICAL SOIL MAP LEGEND of Franklin County, Illinois

Map Symbol	Soil Name
2A	Cisne silt loam, 0 to 2 percent slopes
3A	Hoyleton silt loam, 0 to 2 percent slopes
3B2	Hoyleton silt loam, 2 to 5 percent slopes, eroded
4B2	Richview silt loam, 2 to 5 percent slopes, eroded
4C2	Richview silt loam, 5 to 10 percent slopes, eroded
5C3	Blair silty clay loam, 5 to 10 percent slopes, severely eroded
8D3	Hickory clay loam, 10 to 18 percent slopes, severely eroded
10C	Plumfield silty clay loam, 5 to 10 percent slopes
10D	Plumfield silty clay loam, 10 to 18 percent slopes
12A	Wynoose silt loam, 0 to 2 percent slopes
13A	Bluford silt loam, 0 to 2 percent slopes
13B2	Bluford silt loam, 2 to 5 percent slopes, eroded
14B	Ava silt loam, 2 to 5 percent slopes
14B2	Ava silt loam, 2 to 5 percent slopes, eroded
14C2	Ava silt loam, 5 to 10 percent slopes, eroded
15D3	Parke silty clay loam, 10 to 18 percent slopes, severely eroded
84A	Okaw silt loam, 0 to 2 percent slopes
109A	Racoon silt loam, 0 to 2 percent slopes
122B	Colp silt loam, 2 to 5 percent slopes
122B2	Colp silt loam, 2 to 5 percent slopes, eroded
122C3	Colp silty clay loam, 5 to 10 percent slopes, severely eroded
122D3	Colp silty clay loam, 10 to 18 percent slopes, severely eroded
287A	Chauncey silt loam, 0 to 2 percent slopes
301B	Grantsburg silt loam, 2 to 5 percent slopes
301C3	Grantsburg silty clay loam, 5 to 10 percent slopes, severely eroded
337A	Creal silt loam, 0 to 2 percent slopes
338A	Hurst silt loam, 0 to 2 percent slopes
340D3	Zanesville silty clay loam, 10 to 18 percent slopes, severely eroded
376A	Cisne silt loam, bench, 0 to 2 percent slopes
377A	Hoyleton silt loam, bench, 0 to 2 percent slopes
377B2	Hoyleton silt loam, bench, 2 to 5 percent slopes, eroded
421G	Kell silt loam, 35 to 60 percent slopes
518B	Rend silt loam, 2 to 5 percent slopes
518B2	Rend silt loam, 2 to 5 percent slopes, eroded
518C2	Rend silt loam, 5 to 10 percent slopes, eroded
533	Urban land
536	Dumps, mine
583B	Pike silt loam, 2 to 5 percent slopes
583C2	Pike silt loam, 5 to 10 percent slopes, eroded
639A	Wynoose silt loam, bench, 0 to 2 percent slopes
640A	Bluford silt loam, bench, 0 to 2 percent slopes
802B	Orthents, loamy, undulating
802F	Orthents, loamy, hilly and very hilly
823B	Schuline silt loam, 1 to 5 percent slopes
866	Dumps, slurry
871D	Lenzburg gravelly silty clay loam, 7 to 20 percent slopes
908F	Hickory-Kell silt loams, 18 to 35 percent slopes
927D3	Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded
1085A	Jacob silty clay, undrained, 0 to 2 percent slopes, frequently flooded
1108A	Bonnie silt loam, undrained, 0 to 2 percent slopes, frequently flooded
3072A	Sharon silt loam, 0 to 2 percent slopes, frequently flooded
3085A	Jacob silty clay, 0 to 2 percent slopes, frequently flooded
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
MW	Miscellaneous water
W	Water

**Notes To Accompany The Classification And Correlation Of
Franklin County, Illinois**

1. Some published map units did not have a slope class letter in the map symbol and the slope range was not in the map unit name. This update adds a slope class letter to the mapunit symbol and a slope range to the mapunit name.
2. Some areas of Hickory (8F & 8G) soils located on the steeper slopes are correlated to Hickory-Kell (908F). There are no acres of Hickory (8G) mapped in Franklin County.

**Mapunit History Notes For
Franklin County, Illinois**

Map Symbol	Map Unit Name	Mapunit History Notes
15D3	Parke silty clay loam, 10 to 18 percent slopes, severely eroded	Parke soils in this survey as taxadjuncts to the series. They have a base saturation of more than 60 percent at 125cm below the top of the argillic. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.
823B	Schuline silt loam, 1 to 5 percent slopes	The Schuline soils in this survey average more than 15% gravel and channers in the upper meter of the profile. They are not considered taxadjuncts for this reason.
583B	Pike silt loam, 2 to 5 percent slopes	Pike soils in this survey as taxadjuncts to the series. They have a base saturation of more than 60 percent at 125cm below the top of the argillic. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.
908F	Hickory-Kell silt loams, 18 to 35 percent slopes	Some areas of Hickory soils located on the steeper slopes are correlated to Hickory-Kell. There are no acres of Hickory (8G) mapped in Franklin County. Some small areas of Hickory (8F) are mapped on the Hamilton County line, but no acres are listed in the Franklin County published soil survey.
927D3	Blair-Atlas silty clay loams, 10 to 18 percent slopes, severely eroded	As noted from the 1997 Franklin-Jefferson correlation: "Series typical pedon in this survey area is from map unit 5C3 and is fine-silty. However, some of these soils in mapping unit 5C3 have a higher content of sand in the upper part of the particle size control section. They classify as fine-loamy, mixed, mesic Aquic Hapludalfs. These areas were mapped as unit 927C3 on the original field sheets. All of the Blair soils in map unit 927D3 are fine-loamy and are considered to be taxadjuncts. These fine-loamy components may be separated out as a new series in future updates."

Franklin County Correlation Notes by Soil Series

SERIES NAME	SERIES NOTES
Atlas	The typical pedon is from Jefferson County, Illinois.
Ava	The typical pedon is from Edwards County, Illinois. (OSD type location)
Belknap	The typical pedon is from Wabash County, Illinois. (OSD type location).
Blair	The typical pedon is from Perry County, Illinois. (OSD type location).
*Blair	The typical pedon is from Perry County, Illinois. (OSD type location). The Blair soils mapped in mapping unit 927D3 are taxadjuncts to the series because they are fine-loamy instead of fine-silty. They are classified as fine-loamy, mixed, superactive, mesic Aquic Hapludalfs.
Bluford	The typical pedon is from Franklin County, Illinois. (OSD type location).
Bonnie	The typical pedon is from Franklin County, Illinois.
Cape	The typical pedon is from Saline County, Illinois. (OSD type location).
Chauncey	The typical pedon is from Jefferson County, Illinois.
Cisne	The typical pedon is from Jasper County, Illinois. (OSD type location).
Colp	The typical pedon is from Monroe County, Illinois.(OSD type location)
Creal	The typical pedon is from Hamilton County, Illinois.(OSD type location)
Grantsburg	The typical pedon is from Pope County, Illinois. (OSD type location).
Hickory	The typical pedon is from Jefferson County, Illinois.
Hoyleton	The typical pedon is from Shelby County, Illinois. (OSD type location)
Hurst	The typical pedon is from Williamson County, Illinois. (OSD type location)
Jacob	The typical pedon is from Jackson County, Illinois. (OSD type location)
Kell	The typical pedon is from Jefferson County, Illinois. (OSD type location)
Lenzburg	The typical pedon is from Randolph County, Illinois. (OSD type location)
Okaw	The typical pedon is from Jackson County, Illinois. (OSD type location).
*Parke	The typical pedon is from Franklin County, Illinois. The Parke soils are taxadjuncts to the series. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.
*Pike	The typical pedon is from Franklin County, Illinois. The Pike soils are taxadjuncts to the series. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.
Plumfield	The typical pedon is from Franklin County, Illinois. (OSD type location)
Racoon	The typical pedon is from Saline County, Illinois. (OSD type location).
Rend	The typical pedon is from Franklin County, Illinois. (OSD type location).
Richview	The typical pedon is from Franklin County, Illinois.
Schuline	The typical pedon is from Perry County, Illinois. (OSD type location)
Sharon	The typical pedon is from Williamson County, Illinois. (OSD type location)
Wynoose	The typical pedon is from Wayne County, Illinois. (OSD type location)
Zanesville	The typical pedon is from Pope County, Illinois.

The type locations for the following series have been relocated and are different than the ones listed in the manuscript:

Series	Correlation	Manuscript
Ava	OSD	Jefferson Co.
Blair	OSD	Franklin Co.
Bluford	OSD	Jefferson Co.
Cape	OSD	Franklin Co.
Cisne	OSD	Franklin Co.
Colp	OSD	Franklin Co.
Creal	OSD	Franklin Co.
Grantsburg	OSD	Jefferson Co.

Series	Correlation	Manuscript
Hurst	OSD	Not listed
Jacob	OSD	Franklin Co.
Lenzburg	OSD	Jefferson Co.
Okaw	OSD	Franklin Co.
Racoon	OSD	Franklin Co.
Schuline	OSD	Jefferson Co.
Sharon	OSD	Franklin Co.
Wynoose	OSD	Franklin Co.
Zanesville	Pope Co.	Jefferson Co.

Classification of the Soils of Franklin County, Illinois

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

Soil name	Family or higher taxonomic class
Atlas-----	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Ava-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Belknap-----	Coarse-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts
Blair-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
¹ *Blair-----	Fine-loamy, mixed, superactive, mesic Aquic Hapludalfs
Bluford-----	Fine, smectitic, mesic Aeric Fragic Epiaqualfs
Bonnie-----	Fine-silty, mixed, active, acid, mesic Typic Fluvaquents
Cape-----	Fine, smectitic, acid, mesic Vertic Endoaquepts
Chauncey-----	Fine, smectitic, mesic Typic Argialbolls
Cisne-----	Fine, smectitic, mesic Mollic Albaqualfs
Colp-----	Fine, smectitic, mesic Aquertic Chromic Hapludalfs
Creal-----	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Grantsburg-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Hickory-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Hoyleton-----	Fine, smectitic, mesic Aquollic Hapludalfs
Hurst-----	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Jacob-----	Very-fine, smectitic, acid, mesic Vertic Endoaquepts
Kell-----	Fine-loamy, mixed, active, mesic Ultic Hapludalfs
Lenzburg-----	Fine-loamy, mixed, active, calcareous, mesic Haplic Udarents
Okaw-----	Fine, smectitic, mesic Chromic Vertic Albaqualfs
Orthents-----	Fine-loamy, mixed, active, nonacid, mesic Typic Udorthents
² *Parke-----	Fine-silty, mixed, active, mesic Typic Hapludalfs
³ *Pike-----	Fine-silty, mixed, active, mesic Typic Hapludalfs
Plumfield-----	Fine-silty, mixed, active, mesic Aquic Fragiudalfs
Racoon-----	Fine-silty, mixed, superactive, mesic Typic Endoaqualfs
Rend-----	Fine-silty, mixed, active, mesic Fragic Oxyaquic Hapludalfs
Richview-----	Fine-silty, mixed, superactive, mesic Mollic Oxyaquic Hapludalfs
Schuline-----	Fine-loamy, mixed, active, calcareous, mesic Alfic Udarents
Sharon-----	Coarse-silty, mixed, active, acid, mesic Oxyaquic Udifluvents
Wynoose-----	Fine, smectitic, mesic Typic Albaqualfs
Zanesville-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs

¹ **Blair** soils in mapping unit 927D3 are fine-loamy instead of fine-silty. The other map unit of Blair is classified as Fine-silty, mixed, superactive, mesic Aquic Hapludalfs.

² **Parke** soils have a base saturation of more than 60 percent at 125cm below the top of the argillic horizon. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.

³ **Pike** soils have a base saturation of more than 60 percent at 125cm below the top of the argillic horizon. They are classified as fine-silty, mixed, active, mesic Typic Hapludalfs.

Certification Statement

The MLRA Region 11 Team Leader certifies that:

- a. The fieldwork activities are complete. This survey area data was initially SSURGO certified on 12/23/2001.
- b. Franklin County joins Hamilton and Saline Counties to the east, Williamson County to the south, Jackson and Perry Counties to the west, and Jefferson County to the north. An acceptable join exists with all of the adjacent survey areas. An exact join will be achieved when the adjacent counties are updated
- c. Interpretations have been coordinated and agree with adjoining survey areas.
- d. The locations of all typical pedons have been checked for accuracy, and that they occur in delineations using those names. Typical pedons are those that represent the taxonomic units in MLRA 113. Not all typical pedons are located in Franklin County, but are within other subsets of the MLRA.
- e. All typical pedons are classified according to Soil Taxonomy, Second Edition, 1999.
- f. The digital soil maps will be reviewed for accuracy and consistency prior to SSURGO recertification.

Approval Signatures and Date:

Travis Neely
Team Leader, MLRA Region 11
Indianapolis, Indiana

Date

William J. Gradle
State Conservationist
Champaign, Illinois

Date