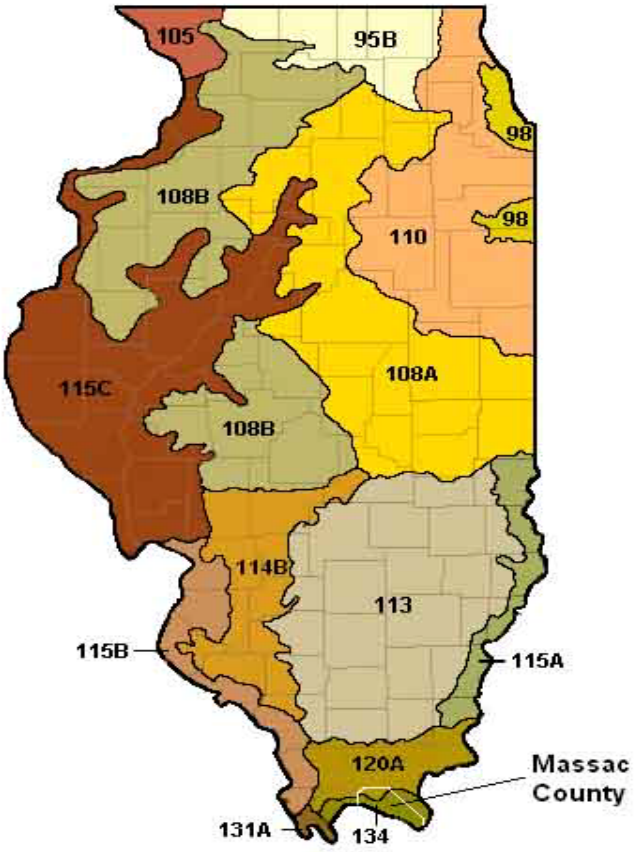
United States Department of Agriculture
Natural Resources Conservation Service

Southern Appalachian Regional MLRA Soil Survey Office
Lexington, KY and
East Central Glaciated Regional MLRA Soil Survey Office
Indianapolis, IN

Classification and Correlation of Soils in Massac County, Illinois

A Subset of MLRA 120 & 134



LEGEND

95B - Southern Wisconsin and Northern Illinois Drift Plain

98 - Southern Michigan and Northern Indiana Drift Plain

105 - Northern Mississippi Valley Loess Hills

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

110 - Northern Illinois and Indiana Heavy Till Plain

113 - Central Claypan Area

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

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

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

131A - Southern Mississippi Valley Alluvium

134 - Southern Mississippi Valley Silty Uplands

September 2004

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Classification and Correlation of the Soils of Massac County, Illinois

A Subset of MLRA 120 & 134

September 2004

This correlation was prepared by Gary Struben, Soil Data Quality Specialist (SDQS), MLRA Region 11 team, Indianapolis, Indiana; John C. Doll, MLRA Soil Survey Coordinator, NRCS, Champaign, Illinois; and Dwayne Williams, NRCS, Soil Scientist. Sam Indorante, MLRA Project Leader, Ed Workman, NRCS, Soil Conservationist; Jon Bathgate, NRCS, GIS Specialist; Matt McCauley, NRCS Resource Soil Scientist and Bryan Fitch, NRCS, Soil Scientist provided much of the information relating to the recorrelation of the soils in Massac County, a subset of MLRA 120 & 134. A correlation conference was held for the Southern 7 counties from March 27 to March 30, 2001. Those participating in the conference were the same people previously listed.

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 Massac County soil maps, the descriptive legend in "Classification and Correlation of the Soils of Pope, Hardin and Massac Counties, Illinois" – October 1971, and the text and tables in the published Pope, Hardin and Massac Counties Soil Survey Report – June 1975.

Headnote for detailed soil survey legend:

This update of Massac County, Illinois is an update of a subset of the Soil Survey of Major Land Resource Area (MLRA) 120 & 134. 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 capital letter following those numbers indicates the class of slope, except for the letter "L", which indicates long duration flooding. 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 units. The symbol +, following the slope letter indicates an overwash phase. The symbol ++, following the slope letter indicates an ashy phase.

Soil Correlation of Massac 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 symbols	Field map unit name	Publi-cation symbol	Approved map unit name
9	Sandstone rock land	99G	Sandstone and Limestone Rock Land, 35 to 90 percent slopes
99G	Sandstone and Limestone Rock Land, 35 to 90 percent slopes		
131B	Alvin fine sandy loam, 2 to 4 percent slopes	131B	Alvin fine sandy loam, 2 to 5 percent slopes
131B	Alvin fine sandy loam, 2 to 5 percent slopes		
131C	Alvin fine sandy loam, 4 to 7 percent slopes		
131B	Alvin fine sandy loam, 2 to 4 percent slopes	131C	Alvin fine sandy loam, 5 to 10 percent slopes
131C	Alvin fine sandy loam, 5 to 10 percent slopes		
131C	Alvin fine sandy loam, 4 to 7 percent slopes		
131D2	Alvin fine sandy loam, 7 to 12 percent slopes, eroded		
131B	Alvin fine sandy loam, 2 to 4 percent slopes	131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded
131C	Alvin fine sandy loam, 4 to 7 percent slopes		
131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded		
131D2	Alvin fine sandy loam, 7 to 12 percent slopes, eroded		
131C	Alvin fine sandy loam, 4 to 7 percent slopes	131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded
131D2	Alvin fine sandy loam, 7 to 12 percent slopes, eroded		
131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded		
131E2	Alvin fine sandy loam, 12 to 18 percent slopes, eroded		
131F	Alvin fine sandy loam, 18 to 30 percent slopes	131F	Alvin fine sandy loam, 25 to 35 percent slopes
131F	Alvin fine sandy loam, 25 to 35 percent slopes		
164A	Stoy silt loam, 0 to 2 percent slopes	164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 4 percent slopes		
164A	Stoy silt loam, 0 to 2 percent slopes	164B	Stoy silt loam, 2 to 5 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes		
164B	Stoy silt loam, 2 to 4 percent slopes		
164C2	Stoy silt loam, 4 to 7 percent slopes, eroded		
164B	Stoy silt loam, 2 to 4 percent slopes	164C2	Stoy silt loam, 5 to 10 percent slopes, eroded
164C2	Stoy silt loam, 5 to 10 percent slopes, eroded		
164C2	Stoy silt loam, 4 to 7 percent slopes, eroded		
165	Weir silt loam, 0 to 2 percent slopes	165A	Weir silt loam, 0 to 2 percent slopes
175B	Lamont fine sandy loam, 2 to 5 percent slopes	175B	Lamont fine sandy loam, 2 to 5 percent slopes
175B	Lamont fine sandy loam, 2 to 7 percent slopes		
175D2	Lamont fine sandy loam, 7 to 12 percent slopes, eroded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
175B	Lamont fine sandy loam, 2 to 7 percent slopes	175C2	Lamont fine sandy loam, 5 to 10 percent slopes, eroded
175C2	Lamont fine sandy loam, 5 to 10 percent slopes, eroded		
175D2	Lamont fine sandy loam, 7 to 12 percent slopes, eroded		
175B	Lamont fine sandy loam, 2 to 7 percent slopes	175D2	Lamont fine sandy loam, 10 to 18 percent slopes, eroded
175D2	Lamont fine sandy loam, 10 to 18 percent slopes, eroded		
175D2	Lamont fine sandy loam, 7 to 12 percent slopes, eroded		
214B	Hosmer silt loam, 2 to 4 percent slopes	214B	Hosmer silt loam, 2 to 5 percent slopes
214B	Hosmer silt loam, 2 to 5 percent slopes		
214C2	Hosmer silt loam, 4 to 7 percent slopes, eroded		
214D2	Hosmer silt loam, 7 to 12 percent slopes, eroded		
214D3	Hosmer soils, 7 to 12 percent slopes, severely eroded		
214B	Hosmer silt loam, 2 to 4 percent slopes	214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded
214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded		
214C2	Hosmer silt loam, 4 to 7 percent slopes, eroded		
214D2	Hosmer silt loam, 7 to 12 percent slopes, eroded		
214D3	Hosmer soils, 7 to 12 percent slopes, severely eroded		
214E2	Hosmer silt loam, 12 to 18 percent slopes, eroded		
214E3	Hosmer soils, 12 to 18 percent slopes, severely eroded		
214F2	Hosmer silt loam, 18 to 30 percent slopes, eroded		
214C2	Hosmer silt loam, 4 to 7 percent slopes, eroded	214C3	Hosmer silt loam, 5 to 10 percent slopes, severely eroded
214C3	Hosmer silt loam, 5 to 10 percent slopes, severely eroded		
214D2	Hosmer silt loam, 7 to 12 percent slopes, eroded		
214D3	Hosmer soils, 7 to 12 percent slopes, severely eroded		
214E2	Hosmer silt loam, 12 to 18 percent slopes, eroded		
214E3	Hosmer soils, 12 to 18 percent slopes, severely eroded		
214F2	Hosmer silt loam, 18 to 30 percent slopes, eroded		
214C2	Hosmer silt loam, 4 to 7 percent slopes, eroded	214D2	Hosmer silt loam, 10 to 18 percent slopes, eroded
214D2	Hosmer silt loam, 10 to 18 percent slopes, eroded		
214D2	Hosmer silt loam, 7 to 12 percent slopes, eroded		
214D3	Hosmer soils, 7 to 12 percent slopes, severely eroded		
214E2	Hosmer silt loam, 12 to 18 percent slopes, eroded		
214E3	Hosmer soils, 12 to 18 percent slopes, severely eroded		
214F2	Hosmer silt loam, 18 to 30 percent slopes, eroded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
214C2	Hosmer silt loam, 4 to 7 percent slopes, eroded	214D3	Hosmer silt loam, 10 to 18 percent slopes, severely eroded
214D2	Hosmer silt loam, 7 to 12 percent slopes, eroded		
214D3	Hosmer soils, 7 to 12 percent slopes, severely eroded		
214D3	Hosmer silt loam, 10 to 18 percent slopes, severely eroded		
214E2	Hosmer silt loam, 12 to 18 percent slopes, eroded		
214E3	Hosmer soils, 12 to 18 percent slopes, severely eroded		
214F2	Hosmer silt loam, 18 to 30 percent slopes, eroded		
308B	Alford silt loam, 2 to 4 percent slopes	308B	Alford silt loam, 2 to 5 percent slopes
308B	Alford silt loam, 2 to 5 percent slopes		
308C2	Alford silt loam, 4 to 7 percent slopes, eroded		
308B	Alford silt loam, 2 to 4 percent slopes	308C2	Alford silt loam, 5 to 10 percent slopes, eroded
308C2	Alford silt loam, 5 to 10 percent slopes, eroded		
308C2	Alford silt loam, 4 to 7 percent slopes, eroded		
308D2	Alford silt loam, 7 to 12 percent slopes, eroded		
308D3	Alford soils, 7 to 12 percent slopes, severely eroded		
308E2	Alford silt loam, 12 to 18 percent slopes, eroded		
308E3	Alford soils, 12 to 18 percent slopes, severely eroded		
308B	Alford silt loam, 2 to 4 percent slopes	308C3	Alford silt loam, 5 to 10 percent slopes, severely eroded
308C2	Alford silt loam, 4 to 7 percent slopes, eroded		
308C3	Alford silt loam, 5 to 10 percent slopes, severely eroded		
308D2	Alford silt loam, 7 to 12 percent slopes, eroded		
308D3	Alford soils, 7 to 12 percent slopes, severely eroded		
308E2	Alford silt loam, 12 to 18 percent slopes, eroded		
308E3	Alford soils, 12 to 18 percent slopes, severely eroded		
308C2	Alford silt loam, 4 to 7 percent slopes, eroded	308D2	Alford silt loam, 10 to 18 percent slopes, eroded
308D2	Alford silt loam, 7 to 12 percent slopes, eroded		
308D2	Alford silt loam, 10 to 18 percent slopes, eroded		
308D3	Alford soils, 7 to 12 percent slopes, severely eroded		
308E2	Alford silt loam, 12 to 18 percent slopes, eroded		
308E3	Alford soils, 12 to 18 percent slopes, severely eroded		
308F2	Alford silt loam, 18 to 30 percent slopes, eroded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
308C2	Alford silt loam, 4 to 7 percent slopes, eroded	308D3	Alford silt loam, 10 to 18 percent slopes, severely eroded
308D2	Alford silt loam, 7 to 12 percent slopes, eroded		
308D3	Alford silt loam, 10 to 18 percent slopes, severely eroded		
308D3	Alford soils, 7 to 12 percent slopes, severely eroded		
308E2	Alford silt loam, 12 to 18 percent slopes, eroded		
308E3	Alford soils, 12 to 18 percent slopes, severely eroded		
308F2	Alford silt loam, 18 to 30 percent slopes, eroded		
214F2	Hosmer silt loam, 18 to 30 percent slopes, eroded	308E	Alford silt loam, 18 to 25 percent slopes
308E	Alford silt loam, 18 to 25 percent slopes		
308F2	Alford silt loam, 18 to 30 percent slopes, eroded		
214E2	Hosmer silt loam, 12 to 18 percent slopes, eroded	308E2	Alford silt loam, 18 to 25 percent slopes, eroded
214E3	Hosmer soils, 12 to 18 percent slopes, severely eroded		
214F2	Hosmer silt loam, 18 to 30 percent slopes, eroded		
308E2	Alford silt loam, 18 to 25 percent slopes, eroded		
308E2	Alford silt loam, 12 to 18 percent slopes, eroded		
308E3	Alford soils, 12 to 18 percent slopes, severely eroded		
308F2	Alford silt loam, 18 to 30 percent slopes, eroded		
214E2	Hosmer silt loam, 12 to 18 percent slopes, eroded	308E3	Alford silt loam, 18 to 25 percent slopes, severely eroded
214E3	Hosmer soils, 12 to 18 percent slopes, severely eroded		
214F2	Hosmer silt loam, 18 to 30 percent slopes, eroded		
308E2	Alford silt loam, 12 to 18 percent slopes, eroded		
308E3	Alford soils, 12 to 18 percent slopes, severely eroded		
308E3	Alford silt loam, 18 to 25 percent slopes, severely eroded		
308F2	Alford silt loam, 18 to 30 percent slopes, eroded		
214F2	Hosmer silt loam, 18 to 30 percent slopes, eroded	308F	Alford silt loam, 25 to 35 percent slopes
308E3	Alford soils, 12 to 18 percent slopes, severely eroded		
308F	Alford silt loam, 25 to 35 percent slopes		
308F2	Alford silt loam, 18 to 30 percent slopes, eroded		
339C	Wellston silt loam, 5 to 10 percent slopes	339C	Wellston silt loam, 5 to 10 percent slopes
339E	Wellston silt loam, 12 to 18 percent slopes		
339F	Wellston silt loam, 18 to 30 percent slopes		
986F	Wellston and Berks complex, 18 to 30 percent slopes		
986G	Wellston and Berks complex, 30 to 50 percent slopes		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
339C2	Wellston silt loam, 5 to 10 percent slopes, eroded	339C2	Wellston silt loam, 5 to 10 percent slopes, eroded
339E	Wellston silt loam, 12 to 18 percent slopes		
339E3	Wellston soils, 12 to 18 percent slopes, severely eroded		
339F	Wellston silt loam, 18 to 30 percent slopes		
986F	Wellston and Berks complex, 18 to 30 percent slopes		
986G	Wellston and Berks complex, 30 to 50 percent slopes		
9	Sandstone rock land	339D	Wellston silt loam, 10 to 18 percent slopes
339D	Wellston silt loam, 10 to 18 percent slopes		
339E	Wellston silt loam, 12 to 18 percent slopes		
339F	Wellston silt loam, 18 to 30 percent slopes		
339D2	Wellston silt loam, 10 to 18 percent slopes, eroded	339D2	Wellston silt loam, 10 to 18 percent slopes, eroded
339E	Wellston silt loam, 12 to 18 percent slopes		
339E3	Wellston soils, 12 to 18 percent slopes, severely eroded		
339F	Wellston silt loam, 18 to 30 percent slopes		
339D3	Wellston silt loam, 10 to 18 percent slopes, severely eroded	339D3	Wellston silt loam, 10 to 18 percent slopes, severely eroded
339E	Wellston silt loam, 12 to 18 percent slopes		
339E3	Wellston soils, 12 to 18 percent slopes, severely eroded		
339F	Wellston silt loam, 18 to 30 percent slopes		
9	Sandstone rock land	339F	Wellston silt loam, 18 to 35 percent slopes
339E	Wellston silt loam, 12 to 18 percent slopes		
339E3	Wellston soils, 12 to 18 percent slopes, severely eroded		
339F	Wellston silt loam, 18 to 35 percent slopes		
339F	Wellston silt loam, 18 to 30 percent slopes		
340E2	Zanesville silt loam, 12 to 18 percent slopes, eroded		
340E3	Zanesville soils, 12 to 18 percent slopes, severely eroded		
340F2	Zanesville silt loam, 18 to 30 percent slopes, eroded		
340C2	Zanesville silt loam, 5 to 10 percent slopes, eroded	340C2	Zanesville silt loam, 5 to 10 percent slopes, eroded
340D2	Zanesville silt loam, 7 to 12 percent slopes, eroded		
340D3	Zanesville soils, 7 to 12 percent slopes, severely eroded		
340E2	Zanesville silt loam, 12 to 18 percent slopes, eroded		
340E3	Zanesville soils, 12 to 18 percent slopes, severely eroded		
340F2	Zanesville silt loam, 18 to 30 percent slopes, eroded		
340C3	Zanesville silt loam, 5 to 10 percent slopes, severely eroded	340C3	Zanesville silt loam, 5 to 10 percent slopes, severely eroded
340D2	Zanesville silt loam, 7 to 12 percent slopes, eroded		
340D3	Zanesville soils, 7 to 12 percent slopes, severely eroded		
340E2	Zanesville silt loam, 12 to 18 percent slopes, eroded		
340E3	Zanesville soils, 12 to 18 percent slopes, severely eroded		
340F2	Zanesville silt loam, 18 to 30 percent slopes, eroded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
340D	Zanesville silt loam, 10 to 18 percent slopes	340D	Zanesville silt loam, 10 to 18 percent slopes
340D2	Zanesville silt loam, 7 to 12 percent slopes, eroded		
340E2	Zanesville silt loam, 12 to 18 percent slopes, eroded		
340F2	Zanesville silt loam, 18 to 30 percent slopes, eroded		
340D2	Zanesville silt loam, 7 to 12 percent slopes, eroded	340D2	Zanesville silt loam, 10 to 18 percent slopes, eroded
340D2	Zanesville silt loam, 10 to 18 percent slopes, eroded		
340D3	Zanesville soils, 7 to 12 percent slopes, severely eroded		
340E2	Zanesville silt loam, 12 to 18 percent slopes, eroded		
340E3	Zanesville soils, 12 to 18 percent slopes, severely eroded		
340F2	Zanesville silt loam, 18 to 30 percent slopes, eroded		
340D2	Zanesville silt loam, 7 to 12 percent slopes, eroded	340D3	Zanesville silt loam, 10 to 18 percent slopes, severely eroded
340D3	Zanesville soils, 7 to 12 percent slopes, severely eroded		
340D3	Zanesville silt loam, 10 to 18 percent slopes, severely eroded		
340E2	Zanesville silt loam, 12 to 18 percent slopes, eroded		
340E3	Zanesville soils, 12 to 18 percent slopes, severely eroded		
340F2	Zanesville silt loam, 18 to 30 percent slopes, eroded		
308B	Alford silt loam, 2 to 4 percent slopes	453C2	Muren silt loam, 5 to 10 percent slopes, eroded
308C2	Alford silt loam, 4 to 7 percent slopes, eroded		
308D2	Alford silt loam, 7 to 12 percent slopes, eroded		
308D3	Alford soils, 7 to 12 percent slopes, severely eroded		
308E2	Alford silt loam, 12 to 18 percent slopes, eroded		
308E3	Alford soils, 12 to 18 percent slopes, severely eroded		
308F2	Alford silt loam, 18 to 30 percent slopes, eroded		
453C2	Muren silt loam, 5 to 10 percent slopes, eroded		
308C2	Alford silt loam, 4 to 7 percent slopes, eroded	453D2	Muren silt loam, 10 to 18 percent slopes, eroded
308D2	Alford silt loam, 7 to 12 percent slopes, eroded		
308D3	Alford soils, 7 to 12 percent slopes, severely eroded		
308E2	Alford silt loam, 12 to 18 percent slopes, eroded		
308E3	Alford soils, 12 to 18 percent slopes, severely eroded		
308F2	Alford silt loam, 18 to 30 percent slopes, eroded		
453D2	Muren silt loam, 10 to 18 percent slopes, eroded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
691D	Beasley silt loam, 10 to 18 percent slopes	691D	Beasley silt loam, 10 to 18 percent slopes
691F	Beasley silt loam, 18 to 30 percent slopes		
691G	Beasley silt loam, 30 to 50 percent slopes		
691F	Beasley silt loam, 18 to 35 percent slopes	691F	Beasley silt loam, 18 to 35 percent slopes
691F	Beasley silt loam, 18 to 30 percent slopes		
691G	Beasley silt loam, 30 to 50 percent slopes		
691F	Beasley silt loam, 18 to 30 percent slopes	691G	Beasley silt loam, 35 to 70 percent slopes
691G	Beasley silt loam, 30 to 50 percent slopes		
691G	Beasley silt loam, 35 to 70 percent slopes		
801	Orthents, silty	801B	Orthents, silty, undulating
801B	Orthents, silty, undulating		
B.P.	BORROW PITS		
C.F.L.	CUT AND FILL LAND		
802	Orthents, loamy	802D	Orthents, loamy, hilly
802D	Orthents, loamy, hilly		
B.P.	BORROW PITS		
C.F.L.	CUT AND FILL LAND		
864	Pits, quarries	864	Pits, quarries
G.P.	QUARRIES & GRAVEL PITS		
865	Pits, gravel	865	Pits, gravel
G.P.	QUARRIES & GRAVEL PITS		
955D	Muskingum and Berks soils, 10 to 18 percent slopes	955D	Muskingum and Berks soils, 10 to 18 percent slopes
955F	Muskingum and Berks soils, 15 to 30 percent slopes		
955G	Muskingum and Berks soils, 30 to 60 percent slopes		
955D2	Muskingum and Berks soils, 10 to 18 percent slopes, eroded	955D2	Muskingum and Berks soils, 10 to 18 percent slopes, eroded
955F	Muskingum and Berks soils, 15 to 30 percent slopes		
955G	Muskingum and Berks soils, 30 to 60 percent slopes		
9	Sandstone rock land	955F	Muskingum and Berks soils, 18 to 35 percent slopes
955F	Muskingum and Berks soils, 18 to 35 percent slopes		
955F	Muskingum and Berks soils, 15 to 30 percent slopes		
955G	Muskingum and Berks soils, 30 to 60 percent slopes		
986F	Wellston and Berks complex, 18 to 30 percent slopes		
986G	Wellston and Berks complex, 30 to 50 percent slopes		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
9	Sandstone rock land	955G	Muskingum and Berks soils, 35 to 70 percent slopes
955F	Muskingum and Berks soils, 15 to 30 percent slopes		
955G	Muskingum and Berks soils, 35 to 70 percent slopes		
955G	Muskingum and Berks soils, 30 to 60 percent slopes		
986F	Wellston and Berks complex, 18 to 30 percent slopes		
986G	Wellston and Berks complex, 30 to 50 percent slopes		
956B	Brandon-Saffell complex, 2 to 5 percent slopes	956B	Brandon-Saffell complex, 2 to 5 percent slopes
956B	Brandon and Saffell soils, 1 to 4 percent slopes		
956C2	Brandon and Saffell soils, 4 to 12 percent slopes, eroded		
956F	Brandon and Saffell soils, 12 to 30 percent slopes		
628E	Lax silt loam, 12 to 18 percent slopes	956C2	Brandon-Saffell complex, 5 to 10 percent slopes, eroded
628E3	Lax soils, 12 to 18 percent slopes, severely eroded		
628F2	Lax silt loam, 18 to 30 percent slopes, eroded		
953E2	Hosmer and Lax silt loams, 12 to 18 percent slopes, eroded		
953E3	Hosmer and Lax complex, 12 to 18 percent slopes, severely eroded		
956B	Brandon and Saffell soils, 1 to 4 percent slopes		
956C2	Brandon and Saffell soils, 4 to 12 percent slopes, eroded		
956C2	Brandon-Saffell complex, 5 to 10 percent slopes, eroded		
956F	Brandon and Saffell soils, 12 to 30 percent slopes		
628E	Lax silt loam, 12 to 18 percent slopes	956C3	Brandon-Saffell complex, 5 to 10 percent slopes, severely eroded
628E3	Lax soils, 12 to 18 percent slopes, severely eroded		
628F2	Lax silt loam, 18 to 30 percent slopes, eroded		
953E2	Hosmer and Lax silt loams, 12 to 18 percent slopes, eroded		
953E3	Hosmer and Lax complex, 12 to 18 percent slopes, severely eroded		
956B	Brandon and Saffell soils, 1 to 4 percent slopes		
956C2	Brandon and Saffell soils, 4 to 12 percent slopes, eroded		
956C3	Brandon-Saffell complex, 5 to 10 percent slopes, severely eroded		
956F	Brandon and Saffell soils, 12 to 30 percent slopes		
628E	Lax silt loam, 12 to 18 percent slopes	956D	Brandon-Saffell complex, 10 to 18 percent slopes
628E3	Lax soils, 12 to 18 percent slopes, severely eroded		
953E2	Hosmer and Lax silt loams, 12 to 18 percent slopes, eroded		
953E3	Hosmer and Lax complex, 12 to 18 percent slopes, severely eroded		
956C2	Brandon and Saffell soils, 4 to 12 percent slopes, eroded		
956D	Brandon-Saffell complex, 10 to 18 percent slopes		
956F	Brandon and Saffell soils, 12 to 30 percent slopes		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
628E	Lax silt loam, 12 to 18 percent slopes	956D2	Brandon-Saffell complex, 10 to 18 percent slopes, eroded
628E3	Lax soils, 12 to 18 percent slopes, severely eroded		
628F2	Lax silt loam, 18 to 30 percent slopes, eroded		
953E2	Hosmer and Lax silt loams, 12 to 18 percent slopes, eroded		
953E3	Hosmer and Lax complex, 12 to 18 percent slopes, severely eroded		
953F2	Hosmer and Lax silt loams, 18 to 30 percent slopes, eroded		
956C2	Brandon and Saffell soils, 4 to 12 percent slopes, eroded		
956D2	Brandon-Saffell complex, 10 to 18 percent slopes, eroded		
956F	Brandon and Saffell soils, 12 to 30 percent slopes		
628E	Lax silt loam, 12 to 18 percent slopes	956D3	Brandon-Saffell complex, 10 to 18 percent slopes, severely eroded
628E3	Lax soils, 12 to 18 percent slopes, severely eroded		
628F2	Lax silt loam, 18 to 30 percent slopes, eroded		
953E2	Hosmer and Lax silt loams, 12 to 18 percent slopes, eroded		
953E3	Hosmer and Lax complex, 12 to 18 percent slopes, severely eroded		
953F2	Hosmer and Lax silt loams, 18 to 30 percent slopes, eroded		
956C2	Brandon and Saffell soils, 4 to 12 percent slopes, eroded		
956D3	Brandon-Saffell complex, 10 to 18 percent slopes, severely eroded		
956F	Brandon and Saffell soils, 12 to 30 percent slopes		
628E3	Lax soils, 12 to 18 percent slopes, severely eroded	956E2	Brandon-Saffell complex, 18 to 25 percent slopes, eroded
628F2	Lax silt loam, 18 to 30 percent slopes, eroded		
953F2	Hosmer and Lax silt loams, 18 to 30 percent slopes, eroded		
956E2	Brandon-Saffell complex, 18 to 25 percent slopes, eroded		
956F	Brandon and Saffell soils, 12 to 30 percent slopes		
628E3	Lax soils, 12 to 18 percent slopes, severely eroded	956F	Brandon-Saffell complex, 25 to 35 percent slopes
628F2	Lax silt loam, 18 to 30 percent slopes, eroded		
953F2	Hosmer and Lax silt loams, 18 to 30 percent slopes, eroded		
956F	Brandon and Saffell soils, 12 to 30 percent slopes		
956F	Brandon-Saffell complex, 25 to 35 percent slopes		
986D	Wellston-Berks complex, 10 to 18 percent slopes	986D	Wellston-Berks complex, 10 to 18 percent slopes
986F	Wellston and Berks complex, 18 to 30 percent slopes		
986G	Wellston and Berks complex, 30 to 50 percent slopes		
986D2	Wellston-Berks complex, 10 to 18 percent slopes, eroded	986D2	Wellston-Berks complex, 10 to 18 percent slopes, eroded
986F	Wellston and Berks complex, 18 to 30 percent slopes		
986G	Wellston and Berks complex, 30 to 50 percent slopes		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
9	Sandstone rock land	986F	Wellston-Berks complex, 18 to 35 percent slopes
955F	Muskingum and Berks soils, 15 to 30 percent slopes		
955G	Muskingum and Berks soils, 30 to 60 percent slopes		
986F	Wellston and Berks complex, 18 to 30 percent slopes		
986F	Wellston-Berks complex, 18 to 35 percent slopes		
986G	Wellston and Berks complex, 30 to 50 percent slopes		
9	Sandstone rock land	986G	Wellston-Berks complex, 35 to 70 percent slopes
955F	Muskingum and Berks soils, 15 to 30 percent slopes		
955G	Muskingum and Berks soils, 30 to 60 percent slopes		
986F	Wellston and Berks complex, 18 to 30 percent slopes		
986G	Wellston and Berks complex, 30 to 50 percent slopes		
986G	Wellston-Berks complex, 35 to 70 percent slopes		
1843A	Bonnie and Petrolia soils, undrained, 0 to 2 percent slopes, frequently flooded	1843A	Bonnie and Petrolia soils, undrained, 0 to 2 percent slopes, frequently flooded
W108	Bonnie silt loam, 0 to 2 percent slopes, wet		
W288	Petrolia silty clay loam, 0 to 2 percent slopes, wet		
1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded	1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded
W422	Cape silty clay loam, 0 to 2 percent slopes, wet		
W426	Karnak silty clay, 0 to 2 percent slopes, wet		
70	Beaucoup silty clay loam, 0 to 2 percent slopes	3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded
3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded		
71	Darwin silty clay, 0 to 2 percent slopes	3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded
525	Darwin silty clay loam, 0 to 2 percent slopes		
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded		
71	Darwin silty clay, 0 to 2 percent slopes	3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration
3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration		
72	Sharon silt loam, 0 to 2 percent slopes	3072A	Sharon silt loam, 0 to 3 percent slopes, frequently flooded
3072A	Sharon silt loam, 0 to 3 percent slopes, frequently flooded		
72	Sharon silt loam, 0 to 2 percent slopes	3072L	Sharon silt loam, 0 to 3 percent slopes, frequently flooded, long duration
3072L	Sharon silt loam, 0 to 3 percent slopes, frequently flooded, long duration		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
108	Bonnie silt loam, 0 to 2 percent slopes	3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
109	Racoon silt loam, 0 to 2 percent slopes		
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded		
108	Bonnie silt loam, 0 to 2 percent slopes	3108L	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded, long duration
109	Racoon silt loam, 0 to 2 percent slopes		
3108L	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded, long duration		
180	Dupo silt loam, 0 to 2 percent slopes	3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded		
288	Petrolia silty clay loam, 0 to 2 percent slopes	3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded		
288	Petrolia silty clay loam, 0 to 2 percent slopes	3288L	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
3288L	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration		
382	Belknap silt loam, 0 to 2 percent slopes	3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded		
382	Belknap silt loam, 0 to 2 percent slopes	3382L	Belknap silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3382L	Belknap silt loam, 0 to 2 percent slopes, frequently flooded, long duration		
422	Cape silty clay loam, 0 to 2 percent slopes	3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
426	Karnak silty clay, 0 to 2 percent slopes		
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded		
422+	Cape silt loam, 0 to 2 percent slopes, overwash	3422A+	Cape silt loam, overwash, 0 to 2 percent slopes, frequently flooded
426+	Karnak silt loam, 0 to 2 percent slopes, overwash		
3422A+	Cape silt loam, overwash, 0 to 2 percent slopes, frequently flooded		
422	Cape silty clay loam, 0 to 2 percent slopes	3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded
426	Karnak silty clay, 0 to 2 percent slopes		
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded		
422+	Cape silt loam, 0 to 2 percent slopes, overwash	3426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, frequently flooded
426+	Karnak silt loam, 0 to 2 percent slopes, overwash		
3426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, frequently flooded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
426	Karnak silty clay, 0 to 2 percent slopes	3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration
3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration		
455	Alluvial land, 0 to 2 percent slopes	3449L	Armiesburg-Sarpy complex, 0 to 2 percent slopes, frequently flooded, long duration
3449L	Armiesburg-Sarpy complex, 0 to 2 percent slopes, frequently flooded, long duration		
597	Armiesburg silty clay loam, 0 to 2 percent slopes	3597A	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded
600	Huntington silt loam, 0 to 2 percent slopes		
3597A	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded		
597	Armiesburg silty clay loam, 0 to 2 percent slopes	3597L	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
600	Huntington silt loam, 0 to 2 percent slopes		
3597L	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration		
131A	Alvin fine sandy loam, 0 to 2 percent slopes	7131A	Alvin fine sandy loam, 0 to 2 percent slopes, rarely flooded
7131A	Alvin fine sandy loam, 0 to 2 percent slopes, rarely flooded		
131B	Alvin fine sandy loam, 2 to 4 percent slopes	7131B	Alvin fine sandy loam, 2 to 5 percent slopes, rarely flooded
131C	Alvin fine sandy loam, 4 to 7 percent slopes		
7131B	Alvin fine sandy loam, 2 to 5 percent slopes, rarely flooded		
131B	Alvin fine sandy loam, 2 to 4 percent slopes	7131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded, rarely flooded
131C	Alvin fine sandy loam, 4 to 7 percent slopes		
131D2	Alvin fine sandy loam, 7 to 12 percent slopes, eroded		
7131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded, rarely flooded		
131C	Alvin fine sandy loam, 4 to 7 percent slopes	7131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded, rarely flooded
131D2	Alvin fine sandy loam, 7 to 12 percent slopes, eroded		
131E2	Alvin fine sandy loam, 12 to 18 percent slopes, eroded		
7131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded, rarely flooded		
460	Ginat silt loam, 0 to 2 percent slopes	7460A	Ginat silt loam, 0 to 2 percent slopes, rarely flooded
7460A	Ginat silt loam, 0 to 2 percent slopes, rarely flooded		
462A	Sciotoville silt loam, 0 to 2 percent slopes	7462A	Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded
7462A	Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
462B	Sciotoville silt loam, 2 to 4 percent slopes	7462B	Sciotoville silt loam, 2 to 5 percent slopes, rarely flooded
462C2	Sciotoville silt loam, 4 to 7 percent slopes, eroded		
7462B	Sciotoville silt loam, 2 to 5 percent slopes, rarely flooded		
462B	Sciotoville silt loam, 2 to 4 percent slopes	7462C2	Sciotoville silt loam, 5 to 10 percent slopes, eroded, rarely flooded
462C2	Sciotoville silt loam, 4 to 7 percent slopes, eroded		
462D2	Sciotoville silt loam, 7 to 12 percent slopes, eroded		
7462C2	Sciotoville silt loam, 5 to 10 percent slopes, eroded, rarely flooded		
462D3	Sciotoville soils, 7 to 12 percent slopes, severely eroded	7462C3	Sciotoville silt loam, 5 to 10 percent slopes, severely eroded, rarely flooded
7462C3	Sciotoville silt loam, 5 to 10 percent slopes, severely eroded, rarely flooded		
462C2	Sciotoville silt loam, 4 to 7 percent slopes, eroded	7462D2	Sciotoville silt loam, 10 to 18 percent slopes, eroded, rarely flooded
462D2	Sciotoville silt loam, 7 to 12 percent slopes, eroded		
462E2	Sciotoville silt loam, 12 to 18 percent slopes, eroded		
7462D2	Sciotoville silt loam, 10 to 18 percent slopes, eroded, rarely flooded		
462D3	Sciotoville soils, 7 to 12 percent slopes, severely eroded	7462D3	Sciotoville silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded
7462D3	Sciotoville silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded		
463A	Wheeling silt loam, 0 to 2 percent slopes	7463A	Wheeling silt loam, 0 to 2 percent slopes, rarely flooded
7463A	Wheeling silt loam, 0 to 2 percent slopes, rarely flooded		
463B	Wheeling silt loam, 2 to 4 percent slopes	7463B	Wheeling silt loam, 2 to 5 percent slopes, rarely flooded
463C2	Wheeling silt loam, 4 to 7 percent slopes, eroded		
7463B	Wheeling silt loam, 2 to 5 percent slopes, rarely flooded		
463B	Wheeling silt loam, 2 to 4 percent slopes	7463C2	Wheeling silt loam, 5 to 10 percent slopes, eroded, rarely flooded
463C2	Wheeling silt loam, 4 to 7 percent slopes, eroded		
463D2	Wheeling silt loam, 7 to 12 percent slopes, eroded		
7463C2	Wheeling silt loam, 5 to 10 percent slopes, eroded, rarely flooded		
463D2	Wheeling silt loam, 7 to 12 percent slopes, eroded	7463D2	Wheeling silt loam, 10 to 18 percent slopes, eroded, rarely flooded
463E2	Wheeling silt loam, 12 to 25 percent slopes, eroded		
7463D2	Wheeling silt loam, 10 to 18 percent slopes, eroded, rarely flooded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
463E2	Wheeling silt loam, 12 to 25 percent slopes, eroded	7463E2	Wheeling silt loam, 18 to 25 percent slopes, eroded, rarely flooded
7463E2	Wheeling silt loam, 18 to 25 percent slopes, eroded, rarely flooded		
723	Reesville silt loam, 0 to 2 percent slopes	7483A	Henshaw silt loam, 0 to 3 percent slopes, rarely flooded
7483A	Henshaw silt loam, 0 to 3 percent slopes, rarely flooded		
461A	Weinbach silt loam, 0 to 2 percent slopes	7711A	Hatfield silt loam, 0 to 2 percent slopes, rarely flooded
7711A	Hatfield silt loam, 0 to 2 percent slopes, rarely flooded		
461B	Weinbach silt loam, 2 to 4 percent slopes	7711B	Hatfield silt loam, 2 to 5 percent slopes, rarely flooded
461C2	Weinbach silt loam, 4 to 7 percent slopes, eroded		
7711B	Hatfield silt loam, 2 to 5 percent slopes, rarely flooded		
461B	Weinbach silt loam, 2 to 4 percent slopes	7711B2	Hatfield silt loam, 2 to 5 percent slopes, eroded, rarely flooded
461C2	Weinbach silt loam, 4 to 7 percent slopes, eroded		
7711B2	Hatfield silt loam, 2 to 5 percent slopes, eroded, rarely flooded		
70	Beaucoup silty clay loam, 0 to 2 percent slopes	8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded		
71	Darwin silty clay, 0 to 2 percent slopes	8071A	Darwin clay, 0 to 2 percent slopes, occasionally flooded
525	Darwin silty clay loam, 0 to 2 percent slopes		
8071A	Darwin clay, 0 to 2 percent slopes, occasionally flooded		
72	Sharon silt loam, 0 to 2 percent slopes	8072A	Sharon silt loam, 0 to 3 percent slopes, occasionally flooded
8072A	Sharon silt loam, 0 to 3 percent slopes, occasionally flooded		
108	Bonnie silt loam, 0 to 2 percent slopes	8108A	Bonnie silt loam, 0 to 2 percent slopes, occasionally flooded
8108A	Bonnie silt loam, 0 to 2 percent slopes, occasionally flooded		
109	Racoon silt loam, 0 to 2 percent slopes	8109A	Racoon silt loam, 0 to 2 percent slopes, occasionally flooded
8109A	Racoon silt loam, 0 to 2 percent slopes, occasionally flooded		
180	Dupo silt loam, 0 to 2 percent slopes	8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
288	Petrolia silty clay loam, 0 to 2 percent slopes	8288A	Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded
8288A	Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded		
382	Belknap silt loam, 0 to 2 percent slopes	8382A	Belknap silt loam, 0 to 2 percent slopes, occasionally flooded
8382A	Belknap silt loam, 0 to 2 percent slopes, occasionally flooded		
288	Petrolia silty clay loam, 0 to 2 percent slopes	8420A	Piopolis silty clay loam, 0 to 3 percent slopes, occasionally flooded
8420A	Piopolis silty clay loam, 0 to 3 percent slopes, occasionally flooded		
422	Cape silty clay loam, 0 to 2 percent slopes	8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded
426	Karnak silty clay, 0 to 2 percent slopes		
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded		
422+	Cape silt loam, 0 to 2 percent slopes, overwash	8422A+	Cape silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
426+	Karnak silt loam, 0 to 2 percent slopes, overwash		
8422A+	Cape silt loam, overwash, 0 to 2 percent slopes, occasionally flooded		
422	Cape silty clay loam, 0 to 2 percent slopes	8426A	Karnak silty clay, 0 to 2 percent slopes, occasionally flooded
426	Karnak silty clay, 0 to 2 percent slopes		
8426A	Karnak silty clay, 0 to 2 percent slopes, occasionally flooded		
426+	Karnak silt loam, 0 to 2 percent slopes, overwash	8426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
8426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, occasionally flooded		
427	Burnside silt loam, 0 to 2 percent slopes	8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded
628E	Lax silt loam, 12 to 18 percent slopes		
628E3	Lax soils, 12 to 18 percent slopes, severely eroded		
628F2	Lax silt loam, 18 to 30 percent slopes, eroded		
953E2	Hosmer and Lax silt loams, 12 to 18 percent slopes, eroded		
953E3	Hosmer and Lax complex, 12 to 18 percent slopes, severely eroded		
953F2	Hosmer and Lax silt loams, 18 to 30 percent slopes, eroded		
955F	Muskingum and Berks soils, 15 to 30 percent slopes		
955G	Muskingum and Berks soils, 30 to 60 percent slopes		
956C2	Brandon and Saffell soils, 4 to 12 percent slopes, eroded		
956F	Brandon and Saffell soils, 12 to 30 percent slopes		
986F	Wellston and Berks complex, 18 to 30 percent slopes		
986G	Wellston and Berks complex, 30 to 50 percent slopes		
8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded		

Soil Correlation of Massac County, Illinois – continued

Field symbols	Field map unit name	Publi-cation symbol	Approved map unit name
469A	Emma silty clay loam, 0 to 2 percent slopes	8469A	Emma silty clay loam, 0 to 2 percent slopes, occasionally flooded
8469A	Emma silty clay loam, 0 to 2 percent slopes, occasionally flooded		
469B	Emma silty clay loam, 2 to 7 percent slopes	8469B	Emma silty clay loam, 2 to 5 percent slopes, occasionally flooded
8469B	Emma silty clay loam, 2 to 5 percent slopes, occasionally flooded		
469B	Emma silty clay loam, 2 to 7 percent slopes	8469C2	Emma silty clay loam, 5 to 10 percent slopes, eroded, occasionally flooded
469D2	Emma silty clay loam, 7 to 18 percent slopes, eroded		
8469C2	Emma silty clay loam, 5 to 10 percent slopes, eroded, occasionally flooded		
597	Armiesburg silty clay loam, 0 to 2 percent slopes	8597A	Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded
600	Huntington silt loam, 0 to 2 percent slopes		
8597A	Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded		
693	Hurst silty clay loam, 0 to 2 percent slopes	8693A	Hurst silty clay loam, 0 to 2 percent slopes, occasionally flooded
8693A	Hurst silty clay loam, 0 to 2 percent slopes, occasionally flooded		
MW	Miscellaneous Water	MW	Miscellaneous Water
W	Water		
B.P.	BORROW PITS	W	Water
W	Water		

Series Established by this Correlation

None

Series or Other Components Added to Previously Correlated Legend for Illinois Agricultural Experiment Station Report No. 94

Hatfield, Henshaw, Muren, Orthents, Piopolis, and Sarpy

Series Dropped from Previously Correlated Legend for Illinois Agricultural Experiment Station Report No. 94

Baxter (*), Bedford (*), Grantsburg (*), Huntington, Lax, Markland (*), McGary (*), Reesville, Robbs (*) and Weinbach

(*) – No acres of Baxter ,Bedford, Grantsburg, Markland, McGary or Robbs were mapped and correlated in Massac County.

Series Made Inactive

None

Cooperators' Name and Credits

For the front cover, general soil map, and half-title page:
United States Department of Agriculture
Natural Resources Conservation Service
In Cooperation with the Illinois Agricultural Experiment Station

Prior Soil Survey Publications

The last soil survey of Massac County was completed in 1971 and published by the United States Department of Agriculture, Soil Conservation Service in June 1975. (Also designated as Illinois Agricultural Experiment Station Report No. 94). Reference to the prior soil survey will be included in the literature citation of the manuscript. This update replaces the June 1975 soil survey and provides a digital soil survey with additional data, updated soil interpretations and 1:12,000 scale soil maps on an orthophotographic base.

Instructions for Map Compilation, Map Finishing, and Digitizing

Map compilation is being completed by NRCS field soil scientists and by soil scientists contracted by NRCS. The soil maps will be digitized by the Kansas Digitizing Center.

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.

NRCS-SOI-37a
REVISED MAY 2001

Soil Survey Area **Massac County**

State **ILLINOIS**

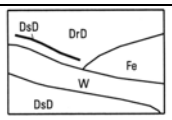
FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Date: **January 2004**

SOIL SURVEY FEATURES

SOIL DELINEATIONS AND LABELS	

CULTURAL FEATURES (Optional)

BOUNDARIES

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

Soil Mapunit Symbol Conversion Legend of Massac 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
9	99G
9	339D
9	339F
9	955F
9	955G
9	986F
9	986G
70	3070A
70	8070A
71	3071A
71	3071L
71	8071A
72	3072A
72	3072L
72	8072A
99G	99G
108	3108A
108	3108L
108	3334L
108	8108A
109	3108A
109	3108L
109	8109A
131A	7131A
131B	131B
131B	131C
131B	131C2
131B	7131B
131B	7131C2
131C	131B
131C	131C
131C	131C2
131C	131D2
131C	7131B
131C	7131C2
131C	7131D2
131C2	131C2
131D2	131C
131D2	131C2
131D2	131D2
131D2	7131C2
131D2	7131D2
131E2	131D2
131E2	7131D2
131F	131F
164A	164A
164A	164B
164B	164A
164B	164B
164B	164C2
164C2	164B
164C2	164C2
165	165A
165A	165A
175B	175B
175B	175C2
175B	175D2
175C2	175C2
175D2	175B
175D2	175C2
175D2	175D2
180	3180A
180	8180A
214B	214B
214B	214C2
214C2	214B
214C2	214C2
214C2	214C3
214C2	214D2
214C2	214D3
214C3	214C3
214D2	214B
214D2	214C2
214D2	214C3
214D2	214D2
214D2	214D3
214D3	214B
214D3	214C2
214D3	214C3
214D3	214D2
214D3	214D3
214E2	214C2
214E2	214C3
214E2	214D2
214E2	214D3
214E2	308E2
214E2	308E3
214E3	214C2
214E3	214C3
214E3	214D2
214E3	214D3
214E3	308E2
214E3	308E3
214F2	214C2
214F2	214C3
214F2	214D2
214F2	214D3
214F2	308E
214F2	308E2
214F2	308E3
214F2	308F
288	3288A
288	3288L
288	8288A
288	8420A
308B	308B
308B	308C2
308B	308C3
308B	453C2
308C2	308B
308C2	308C2
308C2	308C3
308C2	308D2
308C2	308D3
308C2	453C2
308C2	453D2
308C3	308C3
308D2	308C2
308D2	308C3
308D2	308D2
308D2	308D3
308D2	453C2
308D2	453D2
308D3	308C2
308D3	308C3
308D3	308D2
308D3	308D3
308D3	453C2
308D3	453D2
308E	308E
308E2	308C2
308E2	308C3
308E2	308D2
308E2	308D3
308E2	308E2
308E2	308E3
308E2	453C2
308E2	453D2
308E3	308C2
308E3	308C3
308E3	308D2
308E3	308D3
308E3	308E2
308E3	308E3
308E3	308F
308E3	453C2
308E3	453D2
308F	308F
308F2	308D2
308F2	308D3
308F2	308E
308F2	308E2
308F2	308E3
308F2	308F
308F2	453C2
308F2	453D2
339C	339C
339C2	339C2
339D	339D
339D2	339D2
339D3	339D3
339E	339C
339E	339C2
339E	339D
339E	339D2
339E	339D3
339E	339F
339E3	339C2
339E3	339D2
339E3	339D3
339E3	339F
339F	339C
339F	339C2
339F	339D
339F	339D2
339F	339D3
339F	339F
340C2	340C2
340C3	340C3
340D	340D
340D2	340C2
340D2	340C3
340D2	340D
340D2	340D2
340D2	340D3
340D3	340C2
340D3	340C3
340D3	340D2

Soil Mapunit Symbol Conversion Legend of Massac County, Illinois - continued

Field Symbol	Publication Symbol
340D3	340D3
340E2	339F
340E2	340C2
340E2	340C3
340E2	340D
340E2	340D2
340E2	340D3
340E3	339F
340E3	340C2
340E3	340C3
340E3	340D2
340E3	340D3
340F2	339F
340F2	340C2
340F2	340C3
340F2	340D
340F2	340D2
340F2	340D3
382	3382A
382	3382L
382	8382A
422	3422A
422	3426A
422	8422A
422	8426A
422+	3422A+
422+	3426A+
422+	8422A+
426	3422A
426	3426A
426	3426L
426	8422A
426	8426A
426+	3422A+
426+	3426A+
426+	8422A+
426+	8426A+
427	8427B
453C2	453C2
453D2	453D2
455	3449L
460	7460A
461A	7711A
461B	7711B
461B	7711B2
461C2	7711B
461C2	7711B2
462A	7462A
462B	7462B
462B	7462C2

Field Symbol	Publication Symbol
462C2	7462B
462C2	7462C2
462C2	7462D2
462D2	7462C2
462D2	7462D2
462D3	7462C3
462D3	7462D3
462E2	7462D2
463A	7463A
463B	7463B
463B	7463C2
463C2	7463B
463C2	7463C2
463D2	7463C2
463D2	7463D2
463E2	7463D2
463E2	7463E2
469A	8469A
469B	8469B
469B	8469C2
469D2	8469C2
525	3071A
525	8071A
597	3597A
597	3597L
597	8597A
600	3597A
600	3597L
600	8597A
628E	956C2
628E	956C3
628E	956D
628E	956D2
628E	956D3
628E	8427B
628E3	956C2
628E3	956C3
628E3	956D
628E3	956D2
628E3	956D3
628E3	956E2
628E3	956F
628E3	8427B
628F2	956C2
628F2	956C3
628F2	956D2
628F2	956D3
628F2	956E2
628F2	956F
628F2	8427B

Field Symbol	Publication Symbol
691D	691D
691F	691D
691F	691F
691F	691G
691G	691D
691G	691F
691G	691G
693	8693A
723	7483A
801	801B
801B	801B
802	802D
802D	802D
864	864
865	865
953E2	956C2
953E2	956C3
953E2	956D
953E2	956D2
953E2	956D3
953E2	8427B
953E3	956C2
953E3	956C3
953E3	956D
953E3	956D2
953E3	956D3
953E3	8427B
953F2	956D2
953F2	956D3
953F2	956E2
953F2	956F
953F2	8427B
955D	955D
955D2	955D2
955F	955D
955F	955D2
955F	955F
955F	955G
955F	986F
955F	986G
955F	8427B
955G	955D
955G	955D2
955G	955F
955G	955G
955G	986F
955G	986G
955G	8427B
956B	956B
956B	956C2

Field Symbol	Publication Symbol
956B	956C3
956C2	956B
956C2	956C2
956C2	956C3
956C2	956D
956C2	956D2
956C2	956D3
956C2	8427B
956C3	956C3
956D	956D
956D2	956D2
956D3	956D3
956E2	956E2
956F	956B
956F	956C2
956F	956C3
956F	956D
956F	956D2
956F	956D3
956F	956E2
956F	956F
956F	8427B
986D	986D
986D2	986D2
986F	339C
986F	339C2
986F	955F
986F	955G
986F	986D
986F	986D2
986F	986F
986F	986G
986F	8427B
986G	339C
986G	339C2
986G	955F
986G	955G
986G	986D
986G	986D2
986G	986F
986G	986G
986G	8427B
1843A	1843A
1846A	1846A
3070A	3070A
3071A	3071A
3071L	3071L
3072A	3072A
3072L	3072L
3108A	3108A

Soil Mapunit Symbol Conversion Legend of Massac County, Illinois - continued

Field Symbol	Publication Symbol
3108L	3108L
3180A	3180A
3288A	3288A
3288L	3288L
3382A	3382A
3382L	3382L
3422A	3422A
3422A+	3422A+
3426A	3426A
3426A+	3426A+
3426L	3426L
3449L	3449L
3597A	3597A
3597L	3597L
7131A	7131A
7131B	7131B
7131C2	7131C2

Field Symbol	Publication Symbol
7131D2	7131D2
7460A	7460A
7462A	7462A
7462B	7462B
7462C2	7462C2
7462C3	7462C3
7462D2	7462D2
7462D3	7462D3
7463A	7463A
7463B	7463B
7463C2	7463C2
7463D2	7463D2
7463E2	7463E2
7483A	7483A
7711A	7711A
7711B	7711B
7711B2	7711B2

Field Symbol	Publication Symbol
8070A	8070A
8071A	8071A
8072A	8072A
8108A	8108A
8109A	8109A
8180A	8180A
8288A	8288A
8382A	8382A
8420A	8420A
8422A	8422A
8422A+	8422A+
8426A	8426A
8426A+	8426A+
8427B	8427B
8469A	8469A
8469B	8469B
8469C2	8469C2

Field Symbol	Publication Symbol
8597A	8597A
8693A	8693A
B.P.	801B
B.P.	802D
B.P.	W
C.F.L.	801B
C.F.L.	802D
G.P.	864
G.P.	865
MW	MW
W	MW
W	W
W108	1843A
W288	1843A
W422	1846A
W426	1846A

Some field symbols are correlated to more than one publication symbol. Field checks, geology and slope maps were used to make these correlation decisions. See "Notes to Accompany" for description of these separations.

ALPHABETIC SOIL MAP LEGEND of Massac County, Illinois

Map Symbol	Soil Name
308B	Alford silt loam, 2 to 5 percent slopes
308C2	Alford silt loam, 5 to 10 percent slopes, eroded
308C3	Alford silt loam, 5 to 10 percent slopes, severely eroded
308D2	Alford silt loam, 10 to 18 percent slopes, eroded
308D3	Alford silt loam, 10 to 18 percent slopes, severely eroded
308E	Alford silt loam, 18 to 25 percent slopes
308E2	Alford silt loam, 18 to 25 percent slopes, eroded
308E3	Alford silt loam, 18 to 25 percent slopes, severely eroded
308F	Alford silt loam, 25 to 35 percent slopes
7131A	Alvin fine sandy loam, 0 to 2 percent slopes, rarely flooded
131B	Alvin fine sandy loam, 2 to 5 percent slopes
7131B	Alvin fine sandy loam, 2 to 5 percent slopes, rarely flooded
131C	Alvin fine sandy loam, 5 to 10 percent slopes
131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded
7131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded, rarely flooded
131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded
7131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded, rarely flooded
131F	Alvin fine sandy loam, 25 to 35 percent slopes
3449L	Armiesburg-Sarpy complex, 0 to 2 percent slopes, frequently flooded, long duration
3597A	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded
3597L	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
8597A	Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded
691D	Beasley silt loam, 10 to 18 percent slopes
691F	Beasley silt loam, 18 to 35 percent slopes
691G	Beasley silt loam, 35 to 70 percent slopes
3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
3382L	Belknap silt loam, 0 to 2 percent slopes, frequently flooded, long duration
8382A	Belknap silt loam, 0 to 2 percent slopes, occasionally flooded
1843A	Bonnie and Petrolia soils, undrained, 0 to 2 percent slopes, frequently flooded
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
3108L	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded, long duration
8108A	Bonnie silt loam, 0 to 2 percent slopes, occasionally flooded
956B	Brandon-Saffell complex, 2 to 5 percent slopes
956C2	Brandon-Saffell complex, 5 to 10 percent slopes, eroded
956C3	Brandon-Saffell complex, 5 to 10 percent slopes, severely eroded
956D	Brandon-Saffell complex, 10 to 18 percent slopes
956D2	Brandon-Saffell complex, 10 to 18 percent slopes, eroded
956D3	Brandon-Saffell complex, 10 to 18 percent slopes, severely eroded
956E2	Brandon-Saffell complex, 18 to 25 percent slopes, eroded
956F	Brandon-Saffell complex, 25 to 35 percent slopes
8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded
3422A+	Cape silt loam, overwash, 0 to 2 percent slopes, frequently flooded
8422A+	Cape silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded
3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration

ALPHABETIC SOIL MAP LEGEND of Massac County, Illinois - continued

Map Symbol	Soil Name
8071A	Darwin clay, 0 to 2 percent slopes, occasionally flooded
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded
8469A	Emma silty clay loam, 0 to 2 percent slopes, occasionally flooded
8469B	Emma silty clay loam, 2 to 5 percent slopes, occasionally flooded
8469C2	Emma silty clay loam, 5 to 10 percent slopes, eroded, occasionally flooded
7460A	Ginat silt loam, 0 to 2 percent slopes, rarely flooded
7711A	Hatfield silt loam, 0 to 2 percent slopes, rarely flooded
7711B	Hatfield silt loam, 2 to 5 percent slopes, rarely flooded
7711B2	Hatfield silt loam, 2 to 5 percent slopes, eroded, rarely flooded
7483A	Henshaw silt loam, 0 to 3 percent slopes, rarely flooded
214B	Hosmer silt loam, 2 to 5 percent slopes
214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded
214C3	Hosmer silt loam, 5 to 10 percent slopes, severely eroded
214D2	Hosmer silt loam, 10 to 18 percent slopes, eroded
214D3	Hosmer silt loam, 10 to 18 percent slopes, severely eroded
8693A	Hurst silty clay loam, 0 to 2 percent slopes, occasionally flooded
1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded
3426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, frequently flooded
8426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded
3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration
8426A	Karnak silty clay, 0 to 2 percent slopes, occasionally flooded
175B	Lamont fine sandy loam, 2 to 5 percent slopes
175C2	Lamont fine sandy loam, 5 to 10 percent slopes, eroded
175D2	Lamont fine sandy loam, 10 to 18 percent slopes, eroded
MW	Miscellaneous Water
453C2	Muren silt loam, 5 to 10 percent slopes, eroded
453D2	Muren silt loam, 10 to 18 percent slopes, eroded
955D	Muskingum and Berks soils, 10 to 18 percent slopes
955D2	Muskingum and Berks soils, 10 to 18 percent slopes, eroded
955F	Muskingum and Berks soils, 18 to 35 percent slopes
955G	Muskingum and Berks soils, 35 to 70 percent slopes
802D	Orthents, loamy, hilly
801B	Orthents, silty, undulating
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded
3288L	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
8288A	Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded
8420A	Piopolis silty clay loam, 0 to 3 percent slopes, occasionally flooded
865	Pits, gravel
864	Pits, quarries
8109A	Racoon silt loam, 0 to 2 percent slopes, occasionally flooded
99G	Sandstone and Limestone Rock Land, 35 to 90 percent slopes
7462A	Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded
7462B	Sciotoville silt loam, 2 to 5 percent slopes, rarely flooded
7462C2	Sciotoville silt loam, 5 to 10 percent slopes, eroded, rarely flooded
7462C3	Sciotoville silt loam, 5 to 10 percent slopes, severely eroded, rarely flooded
7462D2	Sciotoville silt loam, 10 to 18 percent slopes, eroded, rarely flooded
7462D3	Sciotoville silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded

ALPHABETIC SOIL MAP LEGEND of Massac County, Illinois - continued

Map Symbol	Soil Name
3072A	Sharon silt loam, 0 to 3 percent slopes, frequently flooded
3072L	Sharon silt loam, 0 to 3 percent slopes, frequently flooded, long duration
8072A	Sharon silt loam, 0 to 3 percent slopes, occasionally flooded
164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes
164C2	Stoy silt loam, 5 to 10 percent slopes, eroded
W	Water
165A	Weir silt loam, 0 to 2 percent slopes
986D	Wellston-Berks complex, 10 to 18 percent slopes
986D2	Wellston-Berks complex, 10 to 18 percent slopes, eroded
986F	Wellston-Berks complex, 18 to 35 percent slopes
986G	Wellston-Berks complex, 35 to 70 percent slopes
339C	Wellston silt loam, 5 to 10 percent slopes
339C2	Wellston silt loam, 5 to 10 percent slopes, eroded
339D	Wellston silt loam, 10 to 18 percent slopes
339D2	Wellston silt loam, 10 to 18 percent slopes, eroded
339D3	Wellston silt loam, 10 to 18 percent slopes, severely eroded
339F	Wellston silt loam, 18 to 35 percent slopes
7463A	Wheeling silt loam, 0 to 2 percent slopes, rarely flooded
7463B	Wheeling silt loam, 2 to 5 percent slopes, rarely flooded
7463C2	Wheeling silt loam, 5 to 10 percent slopes, eroded, rarely flooded
7463D2	Wheeling silt loam, 10 to 18 percent slopes, eroded, rarely flooded
7463E2	Wheeling silt loam, 18 to 25 percent slopes, eroded, rarely flooded
340C2	Zanesville silt loam, 5 to 10 percent slopes, eroded
340C3	Zanesville silt loam, 5 to 10 percent slopes, severely eroded
340D	Zanesville silt loam, 10 to 18 percent slopes
340D2	Zanesville silt loam, 10 to 18 percent slopes, eroded
340D3	Zanesville silt loam, 10 to 18 percent slopes, severely eroded

NUMERICAL SOIL MAP LEGEND of Massac County, Illinois

Map Symbol	Soil Name
99G	Sandstone and Limestone Rock Land, 35 to 90 percent slopes
131B	Alvin fine sandy loam, 2 to 5 percent slopes
131C	Alvin fine sandy loam, 5 to 10 percent slopes
131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded
131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded
131F	Alvin fine sandy loam, 25 to 35 percent slopes
164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes
164C2	Stoy silt loam, 5 to 10 percent slopes, eroded
165A	Weir silt loam, 0 to 2 percent slopes
175B	Lamont fine sandy loam, 2 to 5 percent slopes
175C2	Lamont fine sandy loam, 5 to 10 percent slopes, eroded
175D2	Lamont fine sandy loam, 10 to 18 percent slopes, eroded
214B	Hosmer silt loam, 2 to 5 percent slopes
214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded
214C3	Hosmer silt loam, 5 to 10 percent slopes, severely eroded
214D2	Hosmer silt loam, 10 to 18 percent slopes, eroded
214D3	Hosmer silt loam, 10 to 18 percent slopes, severely eroded
308B	Alford silt loam, 2 to 5 percent slopes
308C2	Alford silt loam, 5 to 10 percent slopes, eroded
308C3	Alford silt loam, 5 to 10 percent slopes, severely eroded
308D2	Alford silt loam, 10 to 18 percent slopes, eroded
308D3	Alford silt loam, 10 to 18 percent slopes, severely eroded
308E	Alford silt loam, 18 to 25 percent slopes
308E2	Alford silt loam, 18 to 25 percent slopes, eroded
308E3	Alford silt loam, 18 to 25 percent slopes, severely eroded
308F	Alford silt loam, 25 to 35 percent slopes
339C	Wellston silt loam, 5 to 10 percent slopes
339C2	Wellston silt loam, 5 to 10 percent slopes, eroded
339D	Wellston silt loam, 10 to 18 percent slopes
339D2	Wellston silt loam, 10 to 18 percent slopes, eroded
339D3	Wellston silt loam, 10 to 18 percent slopes, severely eroded
339F	Wellston silt loam, 18 to 35 percent slopes
340C2	Zanesville silt loam, 5 to 10 percent slopes, eroded
340C3	Zanesville silt loam, 5 to 10 percent slopes, severely eroded
340D	Zanesville silt loam, 10 to 18 percent slopes
340D2	Zanesville silt loam, 10 to 18 percent slopes, eroded
340D3	Zanesville silt loam, 10 to 18 percent slopes, severely eroded
453C2	Muren silt loam, 5 to 10 percent slopes, eroded
453D2	Muren silt loam, 10 to 18 percent slopes, eroded
691D	Beasley silt loam, 10 to 18 percent slopes
691F	Beasley silt loam, 18 to 35 percent slopes
691G	Beasley silt loam, 35 to 70 percent slopes
801B	Orthents, silty, undulating
802D	Orthents, loamy, hilly
864	Pits, quarries
865	Pits, gravel
955D	Muskingum and Berks soils, 10 to 18 percent slopes
955D2	Muskingum and Berks soils, 10 to 18 percent slopes, eroded

NUMERICAL SOIL MAP LEGEND of Massac County, Illinois – continued

Map Symbol	Soil Name
955F	Muskingum and Berks soils, 18 to 35 percent slopes
955G	Muskingum and Berks soils, 35 to 70 percent slopes
956B	Brandon-Saffell complex, 2 to 5 percent slopes
956C2	Brandon-Saffell complex, 5 to 10 percent slopes, eroded
956C3	Brandon-Saffell complex, 5 to 10 percent slopes, severely eroded
956D	Brandon-Saffell complex, 10 to 18 percent slopes
956D2	Brandon-Saffell complex, 10 to 18 percent slopes, eroded
956D3	Brandon-Saffell complex, 10 to 18 percent slopes, severely eroded
956E2	Brandon-Saffell complex, 18 to 25 percent slopes, eroded
956F	Brandon-Saffell complex, 25 to 35 percent slopes
986D	Wellston-Berks complex, 10 to 18 percent slopes
986D2	Wellston-Berks complex, 10 to 18 percent slopes, eroded
986F	Wellston-Berks complex, 18 to 35 percent slopes
986G	Wellston-Berks complex, 35 to 70 percent slopes
1843A	Bonnie and Petrolia soils, undrained, 0 to 2 percent slopes, frequently flooded
1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded
3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded
3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration
3072A	Sharon silt loam, 0 to 3 percent slopes, frequently flooded
3072L	Sharon silt loam, 0 to 3 percent slopes, frequently flooded, long duration
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
3108L	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded
3288L	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
3382L	Belknap silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
3422A+	Cape silt loam, overwash, 0 to 2 percent slopes, frequently flooded
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded
3426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, frequently flooded
3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration
3449L	Armiesburg-Sarpy complex, 0 to 2 percent slopes, frequently flooded, long duration
3597A	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded
3597L	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
7131A	Alvin fine sandy loam, 0 to 2 percent slopes, rarely flooded
7131B	Alvin fine sandy loam, 2 to 5 percent slopes, rarely flooded
7131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded, rarely flooded
7131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded, rarely flooded
7460A	Ginat silt loam, 0 to 2 percent slopes, rarely flooded
7462A	Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded
7462B	Sciotoville silt loam, 2 to 5 percent slopes, rarely flooded
7462C2	Sciotoville silt loam, 5 to 10 percent slopes, eroded, rarely flooded
7462C3	Sciotoville silt loam, 5 to 10 percent slopes, severely eroded, rarely flooded
7462D2	Sciotoville silt loam, 10 to 18 percent slopes, eroded, rarely flooded
7462D3	Sciotoville silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded
7463A	Wheeling silt loam, 0 to 2 percent slopes, rarely flooded
7463B	Wheeling silt loam, 2 to 5 percent slopes, rarely flooded

NUMERICAL SOIL MAP LEGEND of Massac County, Illinois – continued

Map Symbol	Soil Name
7463C2	Wheeling silt loam, 5 to 10 percent slopes, eroded, rarely flooded
7463D2	Wheeling silt loam, 10 to 18 percent slopes, eroded, rarely flooded
7463E2	Wheeling silt loam, 18 to 25 percent slopes, eroded, rarely flooded
7483A	Henshaw silt loam, 0 to 3 percent slopes, rarely flooded
7711A	Hatfield silt loam, 0 to 2 percent slopes, rarely flooded
7711B	Hatfield silt loam, 2 to 5 percent slopes, rarely flooded
7711B2	Hatfield silt loam, 2 to 5 percent slopes, eroded, rarely flooded
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded
8071A	Darwin clay, 0 to 2 percent slopes, occasionally flooded
8072A	Sharon silt loam, 0 to 3 percent slopes, occasionally flooded
8108A	Bonnie silt loam, 0 to 2 percent slopes, occasionally flooded
8109A	Racoon silt loam, 0 to 2 percent slopes, occasionally flooded
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded
8288A	Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded
8382A	Belknap silt loam, 0 to 2 percent slopes, occasionally flooded
8420A	Piopolis silty clay loam, 0 to 3 percent slopes, occasionally flooded
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded
8422A+	Cape silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
8426A	Karnak silty clay, 0 to 2 percent slopes, occasionally flooded
8426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
8427B	Burnside silt loam, 1 to 4 percent slopes, occasionally flooded
8469A	Emma silty clay loam, 0 to 2 percent slopes, occasionally flooded
8469B	Emma silty clay loam, 2 to 5 percent slopes, occasionally flooded
8469C2	Emma silty clay loam, 5 to 10 percent slopes, eroded, occasionally flooded
8597A	Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded
8693A	Hurst silty clay loam, 0 to 2 percent slopes, occasionally flooded
MW	Miscellaneous Water
W	Water

Notes To Accompany The Classification And Correlation Of Massac County, Illinois

This legend is a copy and subset of the published legend of Pope, Hardin and Massac Counties. The units with 0 acres in the 1975 publication are deleted from this legend. Mapping units for quarries and gravel pits, mine dumps, borrow pits and made land are added for correlation purposes.

1. Temperature studies indicate, in general, the soils on the uplands are mesic and the soils on the Mississippi River bottomlands are thermic; thus both regimes were used in the survey area. (Union County Correlation - August 1977.) Two follow-up soil temperature studies (1997-2001) have been conducted during this update.

2. Slopes were adjusted to fit the Southern 7 Legend. Slope classes of map units on the published legend differ from slope classes in this legend in the following ways:

PUBLISHED		UPDATE	
SLOPE	**PERCENT**	**SLOPE**	**PERCENT**
A	0-2	A	0-2
B	2-4	B	2-5
C	4-7	C	5-10
D	7-12	D	10-18
E	12-18	E	18-25
F	18-30	F	25-35
G	30-60	F	18-35
		G	35-70

3. When delineations on the published maps conform to the old standard slope ranges, conversions generally are as follows:

MAJOR	MINOR
A goes to A	
B goes to B	
C goes to C	C to B
D goes to C	
D goes to D	
E goes to D	
F goes to E	F to F
G goes to G	G to F

4. Where published and update slope classes overlap, slope maps and field investigations have been used to determine line placement and mapunit slope designation.

5. Multiple correlations exist because of slope adjustment, better slope definition, slope overlap of adjacent mapping units and because we are using a larger mapscale.

6. Published map units on slopes of 0 to 2 percent did not have a slope letter in the map symbol and the slope range was not in the mapunit name. Also, alluvial soils did not have flooding frequency or duration in the mapunit name.

Notes To Accompany The Classification And Correlation Of Massac County, Illinois – continued

7. With this update, all mapunits, except miscellaneous units, have a slope letter in the mapunit symbol and the slope range stated in the mapunit name. In addition, alluvial soils have flooding frequency stated in the mapunit name and the flooding prefix is part of the mapunit symbol. Brief duration is assumed. If duration is other than brief, it is added as part of the mapunit name and a letter is added as a suffix to the mapunit symbol.

Prefix	Description	Suffix	Description
1	undrained, frequently flooded	L	Long duration
3	Frequently flooded	+	overwash phase
5	karst	++	ashy phase
7	Rarely flooded		
8	Occasionally flooded		

8. The published soil survey recognized both acid and non-acid alluvial soils. In some areas where field studies and soil data are available acid to non-acid and non-acid to acid correlations were made. This resulted in multiple acid/non-acid correlations of some of the alluvial soils.

9. The published soil survey recognized fragipan soils on slopes greater than 18 percent. A correlation decision was made based on field studies and soil laboratory data to correlate fragipan soils on slopes steeper than 18 percent to soils without fragipans. This often resulted in multiple correlations based on landform and soil type.

10. The published soil survey did not correlate karst soils. This update correlates karst mapping units on landforms where karst exist.

11. Crop yields for component and data mapunit were populated as instructed by using Illinois Circular 1156 "Soil Productivity in Illinois". Yield adjustments were made for slope, erosion and flooding frequency. If yield information was not available in this circular, then Illinois Bulletin 810 "Average Crop, Pasture, and Forestry Productivity Ratings for Illinois Soils" was used.

12. Site indexes were populated using data supplied by Bryan Fitch, Soil Scientist, USFS. Site indexes were populated for components using Illinois Bulletin 810 "Average Crop, Pasture, and Forestry Productivity Ratings for Illinois Soils". Yield adjustments were made for slope phase and erosion class.

Mapunit History Notes For
Massac County, Illinois

Map Symbol	Map Unit Name	Mapunit History Notes
99G	Sandstone and Limestone Rock Land, 35 to 90 percent slopes	Correlated sandstone and shale rock outcrop (9) and limestone rock outcrop (94) to an undifferentiated mapping unit of Sandstone and Limestone Rock Land.
956C2	Brandon-Saffell complex, 5 to 10 percent slopes, eroded	Soils were originally mapped as Lax (628) soils and Hosmer-Lax (953) complex in the published soil survey. In this update the Lax (628) and Hosmer-Lax (953) soils are correlated to Brandon-Saffell complex (956).
956C3	Brandon-Saffell complex, 5 to 10 percent slopes, severely eroded	Soils were originally mapped as Lax (628) soils and Hosmer-Lax (953) complex in the published soil survey. In this update the Lax (628) and Hosmer-Lax (953) soils are correlated to Brandon-Saffell complex (956).
956D	Brandon-Saffell complex, 10 to 18 percent slopes	Soils were originally mapped as Lax (628) soils and Hosmer-Lax (953) complex in the published soil survey. In this update the Lax (628) and Hosmer-Lax (953) soils are correlated to Brandon-Saffell complex (956).
956D2	Brandon-Saffell complex, 10 to 18 percent slopes, eroded	Soils were originally mapped as Lax (628) soils and Hosmer-Lax (953) complex in the published soil survey. In this update the Lax (628) and Hosmer-Lax (953) soils are correlated to Brandon-Saffell complex (956).
956D3	Brandon-Saffell complex, 10 to 18 percent slopes, severely eroded	Soils were originally mapped as Lax (628) soils and Hosmer-Lax (953) complex in the published soil survey. In this update the Lax (628) and Hosmer-Lax (953) soils are correlated to Brandon-Saffell complex (956).
956E2	Brandon-Saffell complex, 18 to 25 percent slopes, eroded	Soils were originally mapped as Lax (628) soils and Hosmer-Lax (953) complex in the published soil survey. In this update the Lax (628) and Hosmer-Lax (953) soils are correlated to Brandon-Saffell complex (956).
956F	Brandon-Saffell complex, 25 to 35 percent slopes	Soils were originally mapped as Lax (628) soils and Hosmer-Lax (953) complex in the published soil survey. In this update the Lax (628) and Hosmer-Lax (953) soils are correlated to Brandon-Saffell complex (956).
1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded	Soils were originally mapped as wet Karnak (W426) and wet Cape (W422) in the published soil survey. Created an undifferentiated mapping unit (1846A), Karnak and Cape soils, undrained, 0 to 2 percent slopes. The update correlates these soils to this undifferentiated group.
3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded	Soils were originally mapped as Beaucoup (70) in the published soil survey. Some of the soils in this update are correlated to Beaucoup, 3070A.
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded	Soils were originally mapped as Darwin (525) and Darwin (071) in the published soil survey. This update correlates some of these soils to Darwin 3071A.
3071L	Darwin silty clay, 0 to 2 percent slopes, frequently flooded, long duration	Soils were originally mapped as Darwin (071) in the published soil survey. This update correlates some of these soils to Darwin 3071A.

Mapunit History Notes for Massac County - continued

Map Symbol	Map Unit Name	Mapunit History Notes
3072A	Sharon silt loam, 0 to 3 percent slopes, frequently flooded	Soils were originally mapped as Sharon (072) in the published soil survey. This update correlates some of the Sharon soils found along rivers and tributaries to Sharon 3072A.
3072L	Sharon silt loam, 0 to 3 percent slopes, frequently flooded, long duration	Soils were originally mapped as Sharon (072) in the published soil survey. This update correlates some of the Sharon soils found along rivers and tributaries to Sharon 3072L.
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded	Soils were originally mapped as Dupo (180) in the published soil survey. This update correlates some of these soils to Dupo 3180A.
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded	Soils were originally mapped as Petrolia (288) in the published soil survey. This update correlates some of these soils to Petrolia 3288A.
3288L	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	Soils were originally mapped as Petrolia (288) in the published soil survey. This update correlates some of these soils to Petrolia 3288L.
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded	Soils were originally mapped as Karnak (426) in the published soil survey. Some of the soils in this update are correlated to Karnak (3426A).
3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration	Soils were originally mapped as Karnak (426) in the published soil survey. Some of the soils in this update are correlated to Karnak (3426L).
3449L	Armiesburg-Sarpy complex, 0 to 2 percent slopes, frequently flooded, long duration	The Armiesburg-Sarpy complex (3449L) was created to correlate soils mapped as Alluvial land (mu 455) in the published soil surveys.
3597A	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded	Soils were originally mapped as Armiesburg (597) and Huntington (600) in the published soil survey. This update correlates some of the Armiesburg and Huntington soils to Armiesburg (3597A).
3597L	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	Soils were originally mapped as Armiesburg (597) and Huntington (600) in the published soil survey. This update correlates some of the Armiesburg and Huntington soils to Armiesburg (3597L).
7462A	Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded	Soils were originally mapped as Sciotoville (462) in the published soil survey. This update correlates Sciotoville (462) as a taxadjunct to the Sciotoville series. The soils mapped as Sciotoville in the Southern 7 counties have fragic properties, not a well developed fragipan like the established series. They are classified as fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs in Massac County.
7462B	Sciotoville silt loam, 2 to 5 percent slopes, rarely flooded	Soils were originally mapped as Sciotoville (462) in the published soil survey. This update correlates Sciotoville (462) as a taxadjunct to the Sciotoville series. The soils mapped as Sciotoville in the Southern 7 counties have fragic properties, not a well developed fragipan like the established series. They are classified as fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs in Massac County.

Mapunit History Notes for Massac County - continued

Map Symbol	Map Unit Name	Mapunit History Notes
7462C2	Sciotoville silt loam, 5 to 10 percent slopes, eroded, rarely flooded	Soils were originally mapped as Sciotoville (462) in the published soil survey. This update correlates Sciotoville (462) as a taxadjunct to the Sciotoville series. The soils mapped as Sciotoville in the Southern 7 counties have fragic properties, not a well developed fragipan like the established series. They are classified as fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs in Massac County.
7462C3	Sciotoville silt loam, 5 to 10 percent slopes, severely eroded, rarely flooded	Soils were originally mapped as Sciotoville (462) in the published soil survey. This update correlates Sciotoville (462) as a taxadjunct to Sciotoville in the Southern 7 counties have fragic properties, not a well developed fragipan like the established series. They are classified as fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs in Massac County.
7462D2	Sciotoville silt loam, 10 to 18 percent slopes, eroded, rarely flooded	Soils were originally mapped as Sciotoville (462) in the published soil survey. This update correlates Sciotoville (462) as a taxadjunct to the Sciotoville series. The soils mapped as Sciotoville in the Southern 7 counties have fragic properties, not a well developed fragipan like the established series. They are classified as fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs in Massac County.
7462D3	Sciotoville silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded	Soils were originally mapped as Sciotoville (462) in the published soil survey. This update correlates Sciotoville (462) as a taxadjunct to the Sciotoville series. The soils mapped as Sciotoville in the Southern 7 counties have fragic properties, not a well developed fragipan like the established series. They are classified as fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs in Massac County.
7483A	Henshaw silt loam, 0 to 3 percent slopes, rarely flooded	Soils were originally mapped as Reesville (723) in the published soil survey. In this update the Reesville (723) soils are correlated to Henshaw (483).
7711A	Hatfield silt loam, 0 to 2 percent slopes, rarely flooded	Soils were originally mapped as Weinbach (461) in the published soil survey. In this update the Weinbach (461) soils are correlated to Hatfield (711).
7711B	Hatfield silt loam, 2 to 5 percent slopes, rarely flooded	Soils were originally mapped as Weinbach (461) in the published soil survey. In this update the Weinbach (461) soils are correlated to Hatfield (711).
7711B2	Hatfield silt loam, 2 to 5 percent slopes, eroded, rarely flooded	Soils were originally mapped as Weinbach (461) in the published soil survey. In this update the Weinbach (461) soils are correlated to Hatfield (711).
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded	Soils were originally mapped as Beaucoup (70) in the published soil survey. Some of the soils in this update are correlated to Beaucoup (8070A).

Mapunit History Notes for Massac County - continued

Map Symbol	Map Unit Name	Mapunit History Notes
8072A	Sharon silt loam, 0 to 3 percent slopes, occasionally flooded	Soils were originally mapped as Sharon (072) in the published soil survey. This update correlates some of the Sharon soils found in the upland drains along rivers and tributaries to Sharon (8072A).
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded	Soils were originally mapped as Dupo (180) in the published soil survey. Some of the Dupo soils in this update are correlated to Dupo (8180A).
8420A	Piopolis silty clay loam, 0 to 3 percent slopes, occasionally flooded	Soils were originally mapped as Petrolia (288) in the published soil survey. Some of the non-acid Petrolia (288) soils in this update are correlated to acid Piopolis (8420A).
8426A	Karnak silty clay, 0 to 2 percent slopes, occasionally flooded	Soils were originally mapped as Karnak (426) in the published soil survey. Some of the soils in this update are correlated to Karnak (8426A).
8597A	Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded	Soils were originally mapped as Armiesburg (597) and Huntington (600) soils in the published soil survey. This update correlates some of these soils are correlated to Armiesburg (8597A).

Massac County Correlation Notes by Soil Series

SERIES NAME	SERIES NOTES
Alford	The typical pedon is from Hardin County, Illinois.
Alvin	The typical pedon is from Massac County, Illinois.
Armiesburg	The typical pedon is from Massac County, Illinois. The typical pedon is described with low chroma clay films in the solum. The depth to the base of the cambic horizon is more than 60 inches. Armiesburg soils need to be field checked in the future to determine if these properties are typical for the Southern 7 counties.
Beasley	The typical pedon is from Pope County, Illinois. Beasley soils are typically correlated over Ordivician aged, calcareous (marl) shales in MLRA 121. In Massac and Pope Counties, the Beasley soils are correlated over Mississippian aged limestone, shale and sandstone. The 1975 published soil survey describes Beasley soils as moderately well drained with a water table above the bedrock. The typical pedon also describes the depth to a paralithic contact at 36 inches. These soils should be evaluated in the future to determine drainage class and to compare the Beasley soils correlated in MLRA 121 with the Beasley soils correlated in the Southern 7 counties.
Beaucoup	The typical pedon is from Monroe County, Illinois.
Belknap	The typical pedon is from Massac County, Illinois.
Berks	The typical pedon is from Massac County, Illinois.
Bonnie	The typical pedon is from Alexander County, Illinois.
Brandon	The typical pedon is from Massac County, Illinois. The Brandon soils are taxadjuncts and classify as fine-silty mixed, semiactive, thermic Typic Paleudults.
Burnside	The typical pedon is from Johnson County, Illinois. It is the OSD type location for Burnside.
Cape	The typical pedon is from Saline County, Illinois (OSD location).
Darwin	The typical pedon is from Union County, Illinois. These areas were correlated in the 1978 published soil survey report of Union County. Mu 3071 is a taxadjunct of Darwin because they are finely stratified in the upper part of the profile.
Dupo	The typical pedon is from Randolph County, Illinois (OSD type location). SCS analyzed at the University of Illinois Soils Lab data from sample S72IL-91-15 (1-8) sampled as Unnamed and correlated to Dupo.
Emma	The typical pedon is from Gallatin County, Illinois.
Ginat	The typical pedon is from Pope County, Illinois. Limited field investigations are available on these soils for this update. The OSD for Ginat has been reclassified from fine-silty, mixed, mesic Typic Fragiaqualfs to fine-silty, mixed, active, mesic Typic Endoaqualfs. The pedons described and observed in this update indicate that fragic properties exist in may pedons. These soils should be evaluated in the future to determine if fragic properties predominate.

Massac County Correlation Notes by Soil Series - continued

SERIES NAME	SERIES NOTES
Hatfield	Weinbach correlated to Hatfield. The typical pedon is the former Weinbach site in Massac County. The pedon described is less than 60 inches to the base of the argillic horizon and the depth to the base of soil development is less than 80 inches. The C1 horizon in the description may actually be a BC or Bt horizon. A field investigation is needed in the future to resolve this.
Henshaw	Reesville soils correlated to Henshaw. The typical pedon is from White County, Illinois.
Hosmer	The typical pedon is from Union County, Illinois. These areas were correlated in the 1978 published soil survey report of Union County. Soil Survey Investigation Unit, Lincoln, NE samples S73IL-91-35(73LI020-22), S73IL-91-36(73LI023-25) were sampled and correlated as Hosmer. Sample S73IL-91-37(73LI026-28) was sampled as Muren and correlated as Hosmer. University of Illinois Department of Transportation Engineering Test data from sample 75IL091-5-(1-2) sampled and correlated as Hosmer.
Hurst	The typical pedon is from Williamson County, Illinois.
Karnak	The typical pedon is from Massac County, Illinois (OSD type location).
Lamont	The typical pedon is from Massac County, Illinois. The pedon described has a solum that is thinner than allowed for the Lamont Series and has no lamella. Field investigations will be needed in the future to determine if these differences are typical.
Muren	The typical pedon is from White County, Illinois. Some of the Alford soils were correlated to Muren. Muren soils occur on nearly level to strongly sloping ridgetops and side slopes on loess hills. On complex slopes Muren soils occur on the upper footslopes and lower portions on the backslopes where the slope becomes concave.
Muskingum	The typical pedon is from Pope County, Illinois.
Petrolia	The typical pedon is from Pulaski County, Illinois.
Piopolis	The typical pedon is from Hamilton County, Illinois (OSD type location).
Racoon	The typical pedon is from Saline County, Illinois.
Saffell	The typical pedon is from Massac County, Illinois. The Saffell soils are taxadluncts and classify as loamy-skeletal, siliceous, semiactive, thermic Typic Paleudults. The thickness of the solum is also outside the range in characteristics for the Saffell Series.
Sarpy	The typical pedon is from Monroe County, Illinois.
Sciotoville	The typical pedon is from Massac County, Illinois. The Sciotoville soils are taxadjuncts to the series. They have fragic soil properties, not a well developed fragipan like the established series. They classify as Fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs.
Sharon	The typical pedon is from Williamson County, Illinois (OSD type location).
Stoy	The typical pedon is from Gallatin County, Illinois. Stoy soils have fragic soil properties.

Massac County Correlation Notes by Soil Series - continued

SERIES NAME	SERIES NOTES
Weir	The typical pedon is from Massac County, Illinois.
Wellston	The typical pedon is from Massac County, Illinois.
Wheeling	The typical pedon is from Massac County, Illinois.
Zanesville	The typical pedon is from Pope County, Illinois.

Classification of the Soils of Massac 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
Alford	Fine-silty, mixed, superactive, mesic Ultic Hapludalfs
Alvin	Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs
Armiesburg	Fine-silty, mixed, superactive, mesic Fluventic Hapludolls
Beasley	Fine, mixed, active, mesic Typic Hapludalfs
Beaucoup	Fine-silty, mixed, superactive, mesic Fluvaquentic Endoaquolls
Belknap	Coarse-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts
Berks	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
Bonnie	Fine-silty, mixed, active, acid, mesic Typic Fluvaquents
*Brandon	Fine-silty, mixed, semiactive, thermic Typic Paleudults
Burnside	Loamy-skeletal, mixed, active, mesic Oxyaquic Dystrudepts
Cape	Fine, smectitic, acid, mesic Vertic Endoaquepts
Darwin	Fine, smectitic, mesic Fluvaquentic Vertic Endoaquolls
Dupo	Coarse-silty over clayey, mixed over smectitic, superactive, nonacid, mesic Aquic Udifluvents
Emma	Fine-silty, mixed, active, mesic Oxyaquic Dystrudepts
Ginat	Fine-silty, mixed, active, mesic Typic Endoaqualfs
Hatfield	Fine-silty, mixed, active, mesic Aeric Fragic Epiaqualfs
Henshaw	Fine-silty, mixed, active, mesic Aquic Hapludalfs
Hosmer	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Hurst	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Karnak	Fine, smectitic, nonacid, mesic Vertic Endoaquepts
Lamont	Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs
Muren	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Muskingum	Fine-loamy, mixed, semiactive, mesic Typic Dystrudepts
[1]Orthents, loamy	Fine-loamy, mixed, active, nonacid, mesic Typic Udorthents
[2]Orthents, silty	Fine-silty, mixed, superactive, nonacid, mesic Aquic Udorthents
Petrolia	Fine-silty, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
Piopolis	Fine-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts
Racoon	Fine-silty, mixed, superactive, mesic Typic Endoaqualfs
*Saffell	Loamy-skeletal, siliceous, semiactive, thermic Typic Paleudults
Sarpy	Mixed, mesic Typic Udipsamments
[3]*Sciotoville	Fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs
Sharon	Coarse-silty, mixed, active, acid, mesic Oxyaquic Udifluvents
Stoy	Fine-silty, mixed, superactive, mesic Fragiaquic Hapludalfs
Weir	Fine, smectitic, mesic Typic Endoaqualfs
Wellston	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Wheeling	Fine-loamy, mixed, active, mesic Ultic Hapludalfs
Zanesville	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs

[1] **Loamy Orthents** are usually cut and fill areas on uplands. They are mainly borrow pits and fill areas.

[2] **Silty Orthents** are usually the levees along the Ohio River.

[3] **Sciotoville** soils do not have a fragipan. These soils have fragic soil properties in the series control section.

Certification Statement

The MLRA Region 11 Team Leader certifies that:

a. The fieldwork activities were completed in November 2000.

b. Massac County joins Johnson County to the north, Pope County to the northeast and Pulaski County to the west. It is bounded by the Ohio River on the south.

Johnson County - Update in progress-exact join when the updates are complete.
Pope County - Update in progress-exact join when the updates are complete.
Pulaski County - Update in progress-exact join when the updates are complete.

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. Not all typical pedons are located in Massac County, but they are representative of the taxonomic units in MLRA's 120 and 134.

e. All typical pedons are classified according to Soil Taxonomy, Second Edition, 1999.

f. The digital soil maps, once complete, will be reviewed for accuracy and consistency prior to certification.

Approval Signature and Date:

_____	_____	_____	_____
WilliamH. Craddock	Date	William J. Gradle	Date
Team Leader, MLRA Region 18		State Conservationist	
Lexington, Kentucky		Champaign, Illinois	