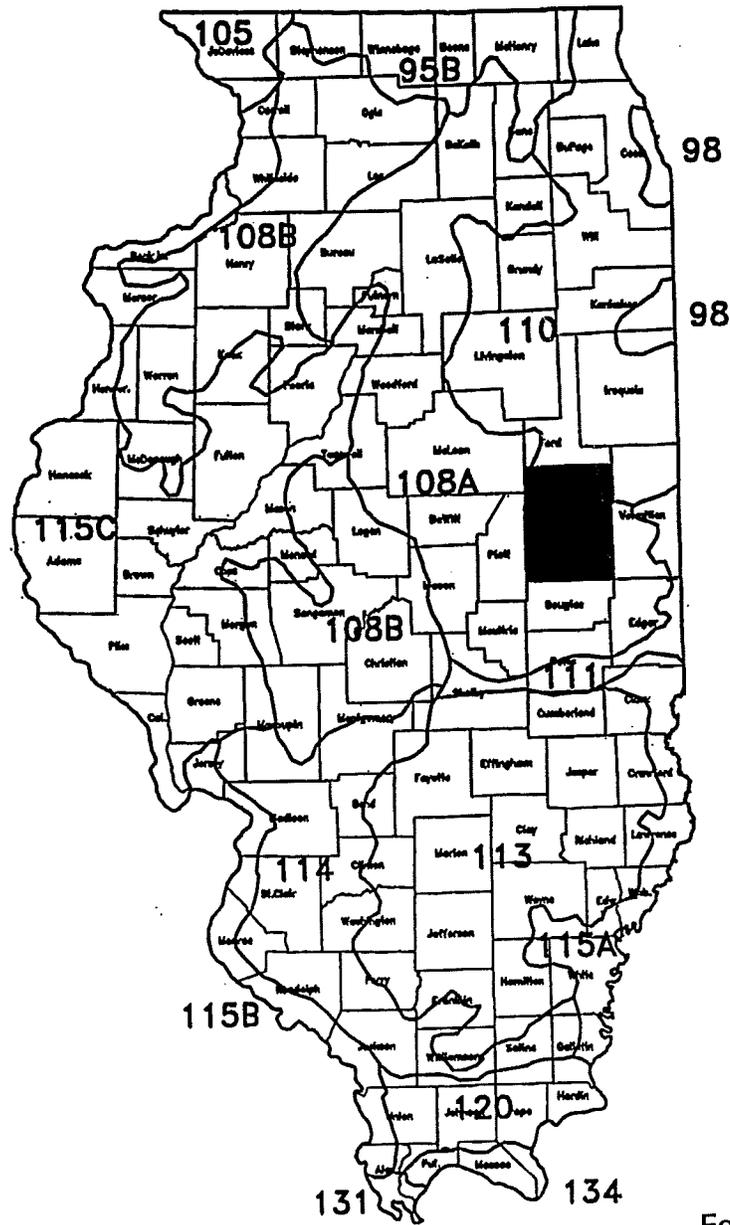


United States
Department of
Agriculture

Natural Resources
Conservation Service

East Central Glaciated
Regional MLRA
Soil Survey Office
Indianapolis, IN

Classification and Correlation of Soils in Champaign County, Illinois



February, 1999

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United States Department of Agriculture

Natural Resources Conservation Service

Classification and Correlation of the Soils of Champaign County, Illinois

A subset of MLRAs 108A and 110

February 1999

This correlation was prepared by Asghar A. Chowdhery, Soil Data Quality Specialist (SDQS) MLRA Region 11 team, Indianapolis, IN, and Tonie J. Endres, MLRA Project Leader, Charleston, IL. It was prepared as part of the update of the Soil Survey of Champaign County, a subset of MLRAs 108A and 110. A field assistance (tech visit) was held May 11-13, 1998. This correlation is based on decisions arrived at the tech visit, transect data, pedon descriptions, laboratory data, field soil maps, join statements, descriptive legend, "Classification and Correlation of the Soils of Champaign County, Illinois" - October 1980, and the published soil survey report - March 1982.

Headnote for detailed soil survey legend

This update of Champaign County, Illinois is an update subset of the Soil Survey of Major Land Resource Areas (MLRAs) 108A and 110. Map units and their symbols and special and conventional symbols are consistent between subsets that are being updated. Map unit symbols consist of a combination of numbers and letters. The initial numbers represent the kind of soil. A capital letter following those numbers indicates the class of slope. A final number of 2 following the slope letter 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.

**SOIL CORRELATION OF
CHAMPAIGN COUNTY, ILLINOIS**

Field symbols	Field map unit name	Publication symbol	Approved map unit name
23A	Blount silt loam, 0 to 2 percent slopes	23A	Blount silt loam, 0 to 2 percent slopes
23B	Blount silt loam, 2 to 5 percent slopes	23B2	Blount silt loam, 2 to 4 percent slopes, eroded
56B	Dana silt loam, 2 to 5 percent slopes	56B	Dana silt loam, 2 to 5 percent slopes
56B2	Dana silt loam, 2 to 5 percent eroded	56B2	Dana silt loam, 2 to 5 percent slopes, eroded
67	Harpster silty clay loam	67A	Harpster silty clay loam, 0 to 2 percent slopes
91A	Swygert silty clay loam, 0 to 2 slopes	91A	Swygert silty clay loam, 0 to 2 percent slopes
91B	Swygert silty clay loam, 1 to 5 percent slopes	91B2	Swygert silty clay loam, 2 to 4 percent slopes, eroded
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded	91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded
102A	La Hogue loam, 0 to 3 percent slopes	102A	La Hogue loam, 0 to 2 percent slopes
125	Selma loam	125A	Selma loam, 0 to 2 percent slopes
131B	Alvin sandy loam, 1 to 5 percent slopes	131B	Alvin fine sandy loam, 2 to 5 percent slopes
134A	Camden silt loam, 0 to 2 percent slopes	134A	Camden silt loam, 0 to 2 percent slopes
134B	Camden silt loam, 1 to 5 percent slopes	134B	Camden silt loam, 2 to 5 percent slopes

CHAMPAIGN COUNTY, ILLINOIS - - Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
146A	Elliott silt loam, 0 to 2 percent slopes	146A	Elliott silt loam, 0 to 2 percent slopes
146B	Elliott silt loam, 1 to 5 percent slopes	146B2	Elliott silty clay loam, 2 to 4 percent slopes, eroded
146C2	Elliott silty clay loam, 4 to 6 percent slopes, eroded	146C2	Elliott silty clay loam, 4 to 6 percent slopes, eroded
148B2	Proctor silt loam, 2 to 5 percent slopes, eroded	148B2	Proctor silt loam, 2 to 5 percent slopes, eroded
149A	Brenton silt loam, 0 to 3 percent slopes	149A	Brenton silt loam, 0 to 2 percent slopes
150B	Onarga sandy loam, 1 to 5 percent slopes	150B	Onarga sandy loam, 2 to 5 percent slopes
152 2152	Drummer silty clay loam Drummer-Urban land complex, 0 to 2 percent slopes	152A	Drummer silty clay loam, 0 to 2 percent slopes
153	Pella silty clay loam	153A	Pella silty clay loam, 0 to 2 percent slopes
154A 2154, 2154A	Flanagan silt loam, 0 to 3 percent slopes Flanagan-Urban land complex, 0 to 3 percent slopes	154A	Flanagan silt loam, 0 to 2 percent slopes
171B 2171, 2171B	Catlin silt loam, 2 to 7 percent slopes Catlin-Urban land complex, 2 to 7 percent slopes	171B	Catlin silt loam, 2 to 5 percent slopes
198A 2198, 2198A	Elburn silt loam, 0 to 3 percent slopes Elburn-Urban land complex, 0 to 3 percent slopes	198A	Elburn silt loam, 0 to 2 percent slopes
206	Thorp silt loam	206A	Thorp silt loam, 0 to 2 percent slopes
219	Millbrook silt loam	219A	Millbrook silt loam, 0 to 2 percent slopes

CHAMPAIGN COUNTY, ILLINOIS - - Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
223B2	Varna silt loam, 2 to 5 percent slopes, eroded	223B2	Varna silt loam, 2 to 4 percent slopes, eroded
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	223C2	Varna silt loam, 4 to 6 percent slopes, eroded
223C3	Varna silty clay loam, 5 to 12 percent slopes, severely eroded	223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded
232	Ashkum silty clay loam	232A	Ashkum silty clay loam, 0 to 2 percent slopes
233B	Birkbeck silt loam, 1 to 5 percent slopes	233B	Birkbeck silt loam, 2 to 5 percent slopes
234A	Sunbury silt loam, 0 to 3 percent slopes	234A	Sunbury silt loam, 0 to 2 percent slopes
235	Bryce silty clay	235A	Bryce silty clay, 0 to 2 percent slopes
236A	Sabina silt loam, 0 to 3 percent slopes	236A	Sabina silt loam, 0 to 2 percent slopes
2236, 2236A	Sabina-Urban land complex, 0 to 3 percent slopes		
241C3	Chatsworth silty clay, 4 to 6 percent slopes, severely eroded	241C3	Chatsworth silty clay, 4 to 6 percent slopes, severely eroded
241D, 241D3	Chatsworth silty clay, 7 to 15 percent slopes	241D3	Chatsworth silty clay, 6 to 12 percent slopes, severely eroded
242A	Kendall silt loam, 0 to 3 percent slopes	242A	Kendall silt loam, 0 to 2 percent slopes
291B	Xenia silt loam, 2 to 5 percent slopes	291B	Xenia silt loam, 2 to 5 percent slopes
322C2	Russell silt loam, 4 to 11 percent slopes, eroded	322C2	Russell silt loam, 5 to 10 percent slopes, eroded
330	Peotone silty clay loam	330A	Peotone silty clay loam, 0 to 2 percent slopes

CHAMPAIGN COUNTY, ILLINOIS - - Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
387B	Ockley silt loam, 1 to 5 percent slopes	387B	Ockley silt loam, 2 to 5 percent slopes
387C3	Ockley clay loam, 5 to 12 percent slopes, severely eroded	387C3	Ockley clay loam, 5 to 10 percent slopes, severely eroded
448B	Mona silt loam, 2 to 7 percent slopes	448B	Mona silt loam, 2 to 5 percent slopes
481A	Raub silt loam, 0 to 3 percent slopes	481A	Raub silt loam, 0 to 2 percent slopes
2481, 2481A	Raub-Urban land complex, 0 to 3 percent slopes		
490A	Odell silt loam, 0 to 3 percent slopes	490A	Odell silt loam, 0 to 2 percent slopes
194B	Morley silt loam, 2 to 5 percent slopes	530B	Ozaukee silt loam, 2 to 4 percent slopes
530C2	Ozaukee silt loam, 4 to 6 percent slopes, eroded	530C2	Ozaukee silt loam, 4 to 6 percent slopes, eroded
194C2	Morley silt loam, 5 to 12 percent slopes, eroded	530D2	Ozaukee silt loam, 6 to 12 percent slopes, eroded
194D2	Morley silt loam, 12 to 20 percent slopes, eroded	530E2	Ozaukee silt loam, 12 to 20 percent slopes, eroded
533	Urban land	533	Urban land
570B	Martinsville silt loam, 2 to 5 percent slopes	570B	Martinsville silt loam, 2 to 5 percent slopes
570C2	Martinsville loam, 5 to 10 percent slopes, eroded	570C2	Martinsville loam, 5 to 10 percent slopes, eroded
570D2	Martinsville loam, 10 to 18 percent slopes, eroded	570D2	Martinsville loam, 10 to 18 percent slopes, eroded

CHAMPAIGN COUNTY, ILLINOIS - - Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
27B	Miami silt loam, 2 to 5 percent slopes	618B	Senachwine silt loam, 2 to 5 percent slopes
2027, 2027C	Miami-Urban land complex, 2 to 10 percent slopes		
27C2,	Miami silt loam, 5 to 10 percent slopes, eroded	618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded
2027, 2027C	Miami-Urban land complex, 2 to 10 percent slopes		
27D2	Miami silt loam, 10 to 15 percent slopes, eroded	618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded
27E2	Miami silt loam, 15 to 25 percent slopes, eroded	618E2	Senachwine silt loam, 18 to 25 percent slopes, eroded
618F	Senachwine silt loam, 18 to 35 slopes	618F	Senachwine silt loam, 18 to 35 percent slopes
221B	Parr silt loam, 2 to 5 percent slopes	622B	Wyanet silt loam, 2 to 5 percent slopes
221C2	Parr silt loam, 5 to 10 percent slopes, eroded	622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
221D3	Parr clay loam, 10 to 15 percent slopes, severely eroded	622D3	Wyanet clay loam, 10 to 18 percent slopes, severely eroded
398A	Wea silt loam, 0 to 3 percent slopes	623A	Kishwaukee silt loam, 0 to 2 percent slopes
637	Muskego silty clay loam, overwash	637A+	Muskego silty clay loam, 0 to 2 percent slopes, overwash
148B	Proctor silt loam, 1 to 5 percent slopes	663B	Clare silt loam, 2 to 5 percent slopes
199B	Plano silt loam, 1 to 5 percent slopes	679B	Blackberry silt loam, 2 to 5 percent slopes
243B	St. Charles silt loam, 1 to 5 percent slopes	680B	Campton silt loam, 2 to 5 percent slopes

CHAMPAIGN COUNTY, ILLINOIS - - Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
440B	Jasper loam, 1 to 5 percent slopes	687B	Penfield loam, 2 to 5 percent slopes
440C2	Jasper loam, 5 to 10 percent slopes, eroded	687C2	Penfield loam, 5 to 10 percent slopes, eroded
802	Orthents, loamy	802B	Orthents, loamy, undulating
830	Landfill	830	Landfill
865	Pits, gravel	865	Pits, gravel
402	Colo silty clay loam	3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
302	Ambraw silty clay loam	3302A	Ambraw silty clay loam, 0 to 2 percent slopes, frequently flooded
73	Ross silt loam	3473A	Rosburg silt loam, 0 to 2 percent slopes, frequently flooded
W, Water	Water	W	Water

Series established by this correlation: Blackberry, Campton, and Penfield

Series added to previous correlated legend (October 1980) :

Blackberry, Campton, Clare, Kishwaukee, Ozaukee, Penfield, Rosburg, Sawmill, Senachwine, and Wyanet

Series dropped from previously correlated legend (October 1980) :

Colo, Jasper, Miami, Morley, Parr, Plano, Ross, St. Charles, and Wea

Series Made Inactive: None

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

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

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

Prior soil survey publications: The last soil survey of Champaign County was completed in 1980 and published by the United States Department of Agriculture, Soil Conservation Service in March 1982. It is Illinois Agricultural Experiment Station Soil Report No. 114, "Soil Survey of Champaign County, Illinois". In addition, University of Illinois Agricultural Experiment Station Soil Report No. 18, "Champaign County Soils," was published in 1918; and University of Illinois Agricultural Experiment Station Soil Report 100, "Soil Survey : Champaign-Urbana Area, Illinois," was published in 1974. Reference to the prior soil surveys will be included in the literature citation of the manuscript. This survey replaces the 1982 soil survey and provides additional data, updated soil interpretations, and digital soil maps at a 1:12,000 scale on an orthophoto base.

Join statement: Champaign County, which was published in 1982, joins five modern day soil surveys. These are Douglas, Ford, McLean, Piatt, and Vermilion Counties in Illinois. Douglas County to the south was published in 1971. Ford County to the north was published in 1990. McLean County to the west was published in 1998. Piatt County to the west was published in 1991. Vermilion County to the east was published in 1996.

An exact join will be completed when these counties are updated to the MLRA legend. Ford County is currently being updated with a projected publication date of 1999. McLean County is currently being updated with a projected publication date of 2001.

Disposition of field sheets: The original soil maps at a scale of 1:15,840 were digitized by the Illinois State Geological Survey. Digital orthophotos will be overlain by the vector file layers, and adjustments will be made to the digital soils layer on the computer. Publication scale is 1:12,000 according to SSURGO standards. Copies of a computer tape of the final digital product will remain at the Illinois NRCS state office, to be certified for SSURGO at NCGC, and be provided to the Champaign County Soil and Water Conservation District as part of the cost share cooperative agreement.



Instructions for map compilation and map finishing: Map recompilation is scheduled for completion by the Charleston MLRA team in July 1999. Soil vector lines will be adjusted on the computer. Hydrological and conventional and special symbols were recompiled on mylar at a 1:12,000 scale. These will be delivered to the Illinois NRCS state office for digital processing. Symbols for map finishing are those approved for SSURGO standards and as shown in this document. The Charleston MLRA team and Illinois NRCS state office GIS staff will complete a final check before delivering the product to NCGC for SSURGO certification.

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

**DEFINITIONS AND GUIDELINES FOR USE OF
CONVENTIONAL AND SPECIAL SYMBOLS
FOR CHAMPAIGN COUNTY, ILLINOIS
A SUBSET OF MLRA 108A AND MLRA 110
Scale 1:12,000**

<u>DESCRIPTION</u>	<u>LABEL</u>	<u>DEFINITIONS AND GUIDELINES</u>
CULTURAL FEATURES		
Land division corners (section)		Section corners are shown, and section numbers are placed as close to the center of the section as possible.
Interstate, Federal, and State		Use appropriate symbols for interstate, federal, and state roads. Other roads will not be labeled.
Dams (medium or small)		Dams are shown if the retained body of water meets the criteria outlined in water area, perennial.
Soil Sample Site	SOIS	The location in the subset of a typical pedon for a taxonomic unit.
HYDROGRAPHIC FEATURES		
Perennial, double line	PDDR	Use for streams that are 100 feet or more in width on the landscape or 0.10 inch or more on the atlas sheet. Generally labeled with proper name.
Perennial, single line	PSDR	Use for streams which generally flow water throughout most the year during years with normal rainfall. They are less than 100 feet in width on the landscape or less than 0.10 inch on the atlas sheet.
Intermittent	INDR	Streams or drainageways that are free of water during the driest time of year in years of normal rainfall. They are less than 100 feet in width on the landscape or less than 0.10 inch on the atlas sheet.
Drainage end	DEND	Shows the point where concentrated water flow stops and there is no channel within 250 feet or more on the landscape or 0.25 inch or more on the atlas sheet.
Perennial drainage ditch	DDIT	Water channels which have been excavated or straightened and that generally flow water throughout most the year during years with normal rainfall. They are less than 100 feet in width on the landscape or less than 0.10 inch on the atlas sheet.



**CONVERSION LEGEND FOR
CHAMPAIGN COUNTY, ILLINOIS**

Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol
23A	23A	232	232A	2154A	154A
23B	23B2	233B	233B	2171	171B
27B	618B	234A	234A	2171B	171A
27C2	618C2	235	235A	2198	198A
27D2	618D2	236A	236A	2198A	198A
27E2	618E2	241C3	241C3	2236	236A
56B	56B	241D	241D3	2236A	236A
56B2	56B2	241D3	241D3	2481	481A
67	67A	242A	242A	2481A	481A
73	3473A	243B	680B		
91A	91A	291B	291B		
91B	91B2	302	3302A		
91C2	91C2	322C2	322C2		
102A	102A	330	330A		
125	125A	387B	387B		
131B	131B	387C3	387C3		
134A	134A	398A	623A		
134B	134B	402	3107A		
146A	146A	440B	687B		
146B	146B2	440C2	687C2		
146C2	146C2	448B	448B		
148B	663B	481A	481A		
148B2	148B2	490A	490A		
149A	149A	530C2	530C2		
150B	150B	533	533		
152	152A	570B	570B		
153	153A	570C2	570C2		
154A	154A	570D2	570D2		
171B	171B	618F	618F		
194B	530B	637	637A+		
194C2	530D2	663B	663B		
194D2	530E2	679B	679B		
198A	198A	680B	680B		
199B	679B	802	802B		
206	206A	830	830		
219	219A	865	865		
221B	622B	2027	681B		
221C2	622C2	2027	618C2		
221D3	622D3	2027C	618B		
223B2	223B2	2027C	618C2		
223C2	223C2	2152	152A		
223C3	223C3	2154	154A		

**MLRAs 108A AND 110
CHAMPAIGN COUNTY SUBSET
ALPHABETICAL SOIL IDENTIFICATION LEGEND**

SYMBOL	SOIL NAME
131B	Alvin fine sandy loam, 2 to 5 percent slopes
3302A	Ambraw silty clay loam, 0 to 2 percent slopes, frequently flooded
232A	Ashkum silty clay loam, 0 to 2 percent slopes
233B	Birkbeck silt loam, 2 to 5 percent slopes
679B	Blackberry silt loam, 2 to 5 percent slopes
23A	Blount silt loam, 0 to 2 percent slopes
23B2	Blount silt loam, 2 to 4 percent slopes, eroded
149A	Brenton silt loam, 0 to 2 percent slopes
235A	Bryce silty clay, 0 to 2 percent slopes
134A	Camden silt loam, 0 to 2 percent slopes
134B	Camden silt loam, 2 to 5 percent slopes
680B	Campton silt loam, 2 to 5 percent slopes
171B	Catlin silt loam, 2 to 5 percent slopes
241C3	Chatsworth silty clay, 4 to 6 percent slopes, severely eroded
241D3	Chatsworth silty clay, 6 to 12 percent slopes, severely eroded
663B	Clare silt loam, 2 to 5 percent slopes
56B	Dana silt loam, 2 to 5 percent slopes
56B2	Dana silt loam, 2 to 5 percent slopes, eroded
152A	Drummer silty clay loam, 0 to 2 percent slopes
198A	Elburn silt loam, 0 to 2 percent slopes
146A	Elliott silt loam, 0 to 2 percent slopes
146B2	Elliott silty clay loam, 2 to 4 percent slopes, eroded
146C2	Elliott silty clay loam, 4 to 6 percent slopes, eroded
154A	Flanagan silt loam, 0 to 2 percent slopes
67A	Harpster silty clay loam, 0 to 2 percent slopes
242A	Kendall silt loam, 0 to 2 percent slopes
623A	Kishwaukee silt loam, 0 to 2 percent slopes
102A	La Hogue loam, 0 to 2 percent slopes
830	Landfill
570C2	Martinsville loam, 5 to 10 percent slopes, eroded
570D2	Martinsville loam, 10 to 18 percent slopes, eroded
570B	Martinsville silt loam, 2 to 5 percent slopes
219A	Millbrook silt loam, 0 to 2 percent slopes
448B	Mona silt loam, 2 to 5 percent slopes
637A+	Muskego silty clay loam, 0 to 2 percent slopes, overwash
387C3	Ockley clay loam, 5 to 10 percent slopes, severely eroded
387B	Ockley silt loam, 2 to 5 percent slopes
490A	Odell silt loam, 0 to 2 percent slopes
150B	Onarga sandy loam, 2 to 5 percent slopes
802B	Orthents, loamy, undulating
530B	Ozaukee silt loam, 2 to 4 percent slopes
530C2	Ozaukee silt loam, 4 to 6 percent slopes, eroded

**MLRAs 108A and 110
CHAMPAIGN COUNTY SUBSET
ALPHABETICAL SOIL IDENTIFICATION LEGEND (continued)**

SYMBOL	SOIL NAME
530D2	Ozaukee silt loam, 6 to 12 percent slopes, eroded
530E2	Ozaukee silt loam, 12 to 20 percent slopes, eroded
153A	Pella silty clay loam, 0 to 2 percent slopes
687B	Penfield loam, 2 to 5 percent slopes
687C2	Penfield loam, 5 to 10 percent slopes, eroded
330A	Peotone silty clay loam, 0 to 2 percent slopes
865	Pits, gravel
148B2	Proctor silt loam, 2 to 5 percent slopes, eroded
481A	Raub silt loam, 0 to 2 percent slopes
3473A	Rosburg silt loam, 0 to 2 percent slopes, frequently flooded
322C2	Russell silt loam, 5 to 10 percent slopes, eroded
236A	Sabina silt loam, 0 to 2 percent slopes
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
125A	Selma loam, 0 to 2 percent slopes
618B	Senachwine silt loam, 2 to 5 percent slopes
618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded
618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded
618E2	Senachwine silt loam, 18 to 25 percent slopes, eroded
618F	Senachwine silt loam, 18 to 35 percent slopes
234A	Sunbury silt loam, 0 to 2 percent slopes
91A	Swygert silty clay loam, 0 to 2 percent slopes
91B2	Swygert silty clay loam, 2 to 4 percent slopes, eroded
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded
206A	Thorp silt loam, 0 to 2 percent slopes
533	Urban land
223B2	Varna silt loam, 2 to 4 percent slopes, eroded
223C2	Varna silt loam, 4 to 6 percent slopes, eroded
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded
622D3	Wyanet clay loam, 10 to 18 percent slopes, severely eroded
622B	Wyanet silt loam, 2 to 5 percent slopes
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
291B	Xenia silt loam, 2 to 5 percent slopes

**MLRAs 108A AND 110
CHAMPAIGN COUNTY SUBSET
NUMERICAL SOIL IDENTIFICATION LEGEND**

SYMBOL	SOIL NAME
23A	Blount silt loam, 0 to 2 percent slopes
23B2	Blount silt loam, 2 to 4 percent slopes, eroded
56B	Dana silt loam, 2 to 5 percent slopes
56B2	Dana silt loam, 2 to 5 percent slopes, eroded
67A	Harpster silty clay loam, 0 to 2 percent slopes
91A	Swygert silty clay loam, 0 to 2 percent slopes
91B2	Swygert silty clay loam, 2 to 4 percent slopes, eroded
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded
102A	La Hogue loam, 0 to 2 percent slopes
125A	Selma loam, 0 to 2 percent slopes
131B	Alvin fine sandy loam, 2 to 5 percent slopes
134A	Camden silt loam, 0 to 2 percent slopes
134B	Camden silt loam, 2 to 5 percent slopes
146A	Elliott silt loam, 0 to 2 percent slopes
146B2	Elliott silty clay loam, 2 to 4 percent slopes, eroded
146C2	Elliott silty clay loam, 4 to 6 percent slopes, eroded
148B2	Proctor silt loam, 2 to 5 percent slopes, eroded
149A	Brenton silt loam, 0 to 2 percent slopes
150B	Onarga sandy loam, 2 to 5 percent slopes
152A	Drummer silty clay loam, 0 to 2 percent slopes
153A	Pella silty clay loam, 0 to 2 percent slopes
154A	Flanagan silt loam, 0 to 2 percent slopes
171B	Catlin silt loam, 2 to 5 percent slopes
198A	Elburn silt loam, 0 to 2 percent slopes
206A	Thorp silt loam, 0 to 2 percent slopes
219A	Millbrook silt loam, 0 to 2 percent slopes
223B2	Varna silt loam, 2 to 4 percent slopes, eroded
223C2	Varna silt loam, 4 to 6 percent slopes, eroded
223D3	Varna silty clay loam, 6 to 12 percent slopes, severely eroded
232A	Ashkum silty clay loam, 0 to 2 percent slopes
233B	Birkbeck silt loam, 2 to 5 percent slopes
234A	Sunbury silt loam, 0 to 2 percent slopes
235A	Bryce silty clay, 0 to 2 percent slopes
236A	Sabina silt loam, 0 to 2 percent slopes
241C3	Chatsworth silty clay, 4 to 6 percent slopes, severely eroded
241D3	Chatsworth silty clay, 6 to 12 percent slopes, severely eroded
242A	Kendall silt loam, 0 to 2 percent slopes
291B	Xenia silt loam, 2 to 5 percent slopes
322C2	Russell silt loam, 5 to 10 percent slopes, eroded
330A	Peotone silty clay loam, 0 to 2 percent slopes
387B	Ockley silt loam, 2 to 5 percent slopes
387C3	Ockley clay loam, 5 to 10 percent slopes, severely eroded

**MLRAs 108A AND 110
CHAMPAIGN COUNTY SUBSET
NUMERICAL SOIL IDENTIFICATION LEGEND (continued)**

SYMBOL	SOIL NAME
448B	Mona silt loam, 2 to 5 percent slopes
481A	Raub silt loam, 0 to 2 percent slopes
490A	Odell silt loam, 0 to 2 percent slopes
530B	Ozaukee silt loam, 2 to 4 percent slopes
530C2	Ozaukee silt loam, 4 to 6 percent slopes, eroded
530D2	Ozaukee silt loam, 6 to 12 percent slopes, eroded
530E2	Ozaukee silt loam, 12 to 20 percent slopes, eroded
533	Urban land
570B	Martinsville silt loam, 2 to 5 percent slopes
570C2	Martinsville loam, 5 to 10 percent slopes, eroded
570D2	Martinsville loam, 10 to 18 percent slopes, eroded
618B	Senachwine silt loam, 2 to 5 percent slopes
618C2	Senachwine silt loam, 5 to 10 percent slopes, eroded
618D2	Senachwine silt loam, 10 to 18 percent slopes, eroded
618E2	Senachwine silt loam, 18 to 25 percent slopes, eroded
618F	Senachwine silt loam, 18 to 35 percent slopes
622B	Wyanet silt loam, 2 to 5 percent slopes
622C2	Wyanet silt loam, 5 to 10 percent slopes, eroded
622D3	Wyanet clay loam, 10 to 18 percent slopes, severely eroded
623A	Kishwaukee silt loam, 0 to 2 percent slopes
637A+	Muskego silty clay loam, 0 to 2 percent slopes, overwash
663B	Clare silt loam, 2 to 5 percent slopes
679B	Blackberry silt loam, 2 to 5 percent slopes
680B	Campton silt loam, 2 to 5 percent slopes
687B	Penfield loam, 2 to 5 percent slopes
687C2	Penfield loam, 5 to 10 percent slopes, eroded
802B	Orthents, loamy, undulating
830	Landfill
865	Pits, gravel
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded
3302A	Ambraw silty clay loam, 0 to 2 percent slopes, frequently flooded
3473A	Rosburg silt loam, 0 to 2 percent slopes, frequently flooded

**CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY
ANALYSIS FOR
CHAMPAIGN COUNTY, ILLINOIS
A SUBSET OF MLRAs 108A and 110**

1. Laboratory Data from the NSSL*

<u>Sampled As</u>	<u>Pedon Number</u>	<u>Approved Series Name</u>
Drummer	57IL-10-1-(1-8)	Drummer
Drummer	57IL-10-2-(1-9)	Drummer
Drummer	57IL-10-3-(1-9)	Drummer

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

<u>Sampled As</u>	<u>Pedon Number</u>	<u>Approved Series Name</u>
Alvin	76IL-10-45-(1-5)	Alvin
Chelsea-Alvin	76IL-10-16-1	Alvin
Ambraw	76IL-10-32-(1-6)	Ambraw
Ambraw	77IL-10-12-(1-6)	Ambraw
Ashkum	Lab Nos. 20421-20428	Ashkum
Nappanee	76IL-10-9-1	Blount
Bryce	76IL-10-6-(1-7)	Bryce
Camden	77IL-10-8-(1-9)	Camden**
Chatsworth	76IL-10-52-(1-3)	Chatsworth
Chatsworth	77IL-10-4-(1-3)	Chatsworth
Colo	77IL-10-28-(1-5)	Sawmill
Drummer	77IL-10-34-(1-8)	Drummer**
Drummer	76IL-10-14-(1-4)	Drummer
Drummer-Milford	76IL-10-15-(1-5)	Drummer
Milford	76IL-10-18-(1-4)	Drummer
Milford	76IL-10-19-(1-4)	Drummer
Milford	76IL-10-1-(1-5)	Fine, smectitic, mesic Vertic Endoaquolls (inclusion in Drummer)
Elliott	77IL-10-30-(1-6)	Elliott
Elliott	76IL-10-2-(1-7)	Elliott
Elliott	76IL-10-17-1	Elliott
Elliott	78IL-10-15-1	Elliott
Elliott	78IL-10-16-1	Elliott
Elliott	76IL-10-12-1	Elliott
Elliott	76IL-10-10-1	Elliott
Elliott	78IL-10-13-1	Elliott
Elliott	78IL-10-14-1	Elliott
Elliott	78IL-10-11-1	Elliott
Elliott	78IL-10-12-1	Elliott
Flanagan	76IL-10-22-(1-9)	Flanagan**
Flanagan	77IL-10-33-(1-8)	Flanagan

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

<u>Sampled As</u>	<u>Pedon Number</u>	<u>Approved Series Name</u>
Harpster	77IL-10-18-(1-7)	Harpster
Jasper	76IL-10-36-(1-6)	Penfield
La Hogue	77IL-10-23-(1-8)	La Hogue**
La Hogue	77IL-10-24-(1-8)	La Hogue
Miami	76IL-10-5-1	Senachwine
Odell	76IL-10-43-(1-6)	Fine, smectitic, mesic Aquertic Argiudolls (inclusion in Odell)
Parr	76IL-10-24-(1-5)	Wyanet**
Hartsburg	76IL-10-12-(1-5)	Fine, smectitic, mesic Vertic Endoaquolls (inclusion in Pella)
Pella, fine-loamy variant	73IL-10-1-(1-8)	Fine-loamy, mixed, superactive, mesic Typic Endoaquolls (inclusion in Pella)
Hartsburg-Peotone	76IL-10-13-(1-5)	Peotone
Millford	76IL-10-21-(1-4)	Fine, smectitic, mesic Vertic Endoaquolls (inclusion in Peotone)
Proctor	77IL-10-27-(1-8)	Clare***
Elliott	76IL-10-4-1	Raub
Selma	77IL-10-13-(1-8)	Selma
Millford	77IL-10-19-(1-4)	Selma
Swygert	78IL-10-4-(1-7)	Elliott (mapped as an inclusion in Swygert)
Swygert	76IL-10-7-6	Swygert
Clarence	78IL-10-6-(1-5)	Fine, illitic, mesic Aquic Argiudolls (inclusion in Swygert)
Thorp	77IL-10-2-(1-7)	Thorp
Varna	76IL-10-26-(1-5)	Varna
Varna	77IL-10-29-(1-7)	Varna
Xenia	76IL-10-42-(1-8)	Xenia***

3. **Laboratory Data from the Illinois State Geological Survey***

<u>Sampled As</u>	<u>Pedon Number</u>	<u>Approved Series Name</u>
Hartsburg	76IL-10-33-(1-6)	Pella

4. **Engineering Test Data from Illinois Department of Transportation, Springfield, Illinois***

<u>Sampled As</u>	<u>Pedon Number</u>	<u>Approved Series Name</u>
Alvin	76IL-10-45-(1&2, 3, 4&5, 7)	Alvin
Birkbeck	76IL-10-46-(1&2, 3&4, 7, 8)	Birkbeck
Catlin	78IL-10-9-(1, 4, 8)	Catlin
Colo	77IL-10-28-(1, 3)	Sawmill
Drummer	77IL-10-34-(1, 5, 8)	Drummer
Flanagan	76IL-10-22-(1, 5, 9)	Flanagan
Morley	77IL-10-32 (1&2, 4&5, 7)	Ozaukee
Ockley	78IL-10-5-(1, 4, 6)	Ockley
Parr	78IL-10-10-(1, 2&3, 4)	Wyanet
Swygert	78IL-10-4-(1, 5, 7)	Swygert

- All pedons listed were previously identified in the "Classification and Correlation of the Soils of Champaign County", dated October 1980.; ** OSD Type location; *** Subset taxonomic unit.

**Notes to Accompany the
Classification and Correlation
of the Soils of
Champaign County, Illinois
Prepared by Tonie J. Endres**

ALVIN SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Vermilion County, IL (85IL-183-024). Soils with sandy loam surface texture are considered to be similar inclusions in MLRA 108A. Slopes are adjusted to the MLRA 108A legend.

AMBRAW SERIES - Previously correlated for Soil Report # 114 as taxadjuncts to the Ambraw series because they have a regular decrease in organic carbon and have Bg horizons that are less acid and have less clay and more sand than defined in the range for the series. The RIC for Ambraw series has been expanded and lab data indicates that there is an organic carbon content of 0.3 percent or more to a depth of 1.25m. Therefore, the Ambraw soils in Champaign County are no longer considered to be taxadjuncts. The typical pedon for the subset taxonomic unit is from Whiteside County (84IL-195-285). Slope and flooding frequency are added to the map unit name. MLRA 108A.

ASHKUM SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Will County (96IL-197-023). Slope is added to the map unit name. MLRA 110.

BIRKBECK SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Macon County (80IL-115-035). Slopes are adjusted to the MLRA 108A legend.

BLACKBERRY SERIES - This series is established with this correlation. It replaces those soils which were previously mapped as Plano fitting an Oxyaquic subgroup classification. The typical pedon for the subset taxonomic unit is from Champaign County, IL (77IL-019-015; previously 77IL-10-15). Slopes are adjusted to the MLRA 108A legend.

BLOUNT SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Livingston County (87IL-105-090). The map unit 23B is correlated to map unit 23B2 to be consistent with the MLRA 110 legend and legends of adjoining counties.

BRENTON SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (77IL-019-003; previously 77IL-10-3). Slopes are adjusted to the MLRA 108A legend.

BRYCE SERIES - Previously correlated for Soil Report # 114 as taxadjuncts to the Bryce series because they lack development in the underlying compact silty clay till as defines for the series. Review of field notes and the original pedon description for the Champaign County taxonomic unit describes leaching of carbonates in the underlying silty clay till. Bryce soils will not be considered as taxadjuncts for this correlation. The typical pedon for the subset taxonomic unit is the OSD type location in Iroquois County (77IL-075-006). Slope is added to the map unit name. MLRA 110.

CAMDEN SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (77IL-019-008; previously 77IL-10-8). The map unit 134A Camden silt loam, 0 to 2 percent slopes, is added to the legend to achieve an exact join with Ford County and will only be used along the Ford County line in MLRA 110. Slopes in the 134B map unit are adjusted to the MLRA 108A legend.

CAMPTON SERIES - This series is established with this correlation. It replaces those soils which were previously mapped as St. Charles fitting an Oxyaquic subgroup classification. The typical pedon for the subset taxonomic unit is from Champaign County (76IL-019-001; previously 76IL-10-1). Slopes are adjusted to the MLRA 108A legend.

CATLIN SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Champaign County (78IL-019-008; previously 78IL-10-8). Slopes are adjusted to the MLRA 108A legend.

CHATSWORTH SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Iroquois County (77IL-075-007). The map unit 241C3 Chatsworth silty clay, 4 to 6 percent slopes, severely eroded, is added to the legend to achieve an exact join with Ford County. Areas of this map unit will be separated from the 241D3 map unit in other parts of the county using USGS topographic maps. Slopes are adjusted to the MLRA 110 legend. Erosion class is added to the map unit names.

CLARE SERIES - This series replaces those soils which were previously mapped as Proctor fitting an Oxyaquic subgroup classification. The typical pedon representing the subset taxonomic unit is from Champaign County (77IL-019-027; previously 77IL-10-27). Slopes are adjusted to the MLRA 108A legend.

COLO SERIES - See notes for Sawmill series.

DANA SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Edgar County (98IL-045-002). The map unit 56B2 Dana silt loam, 2 to 5 percent slopes, eroded is added to the legend to achieve an exact join with Vermillion County.

The Dana soils in the 56B2 map unit are taxadjuncts to the series because they have a thinner, dark colored surface layer than defined for the series. They are fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs. MLRA 108A.

DRUMMER SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (77IL-019-034; previously 77IL-10-34). Slope is added to the map unit name. MLRA 108A.

ELBURN SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Logan County (96IL-107-007). Elburn soils in Champaign County are slightly less acid in the upper part of the Bt horizon than defined for the series. Slopes are adjusted to the MLRA 108A legend.

ELLIOTT SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Livingston County (85IL-105-034). The map unit 146A is added to the legend

to achieve an exact join with Ford County and will be mapped only in areas along the Ford County line. The map unit 146B is correlated to map units 146B2 and 146C2 to be consistent with the MLRA 110 legend and the legends of adjacent counties.

The Elliott soils in the 146B2 and 146C2 map units are taxadjuncts to the series because they have a thinner, dark colored surface layer than defined for the series. They are fine, illitic, mesic Aquollic Hapludalfs.

FLANAGAN SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (76IL-019-022; previously 76IL-10-22). Slopes are adjusted to the MLRA 108A legend.

HARPSTER SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Ford County (67IL-053-001). Slope is added to the map unit name. MLRA 108A.

JASPER SERIES - See notes for Penfield series.

KENDALL SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Douglas County (98IL-041-002). Slopes are adjusted to the MLRA 108A legend.

KISHWAUKEE SERIES - This series replaces those soils previously mapped as Wea series having horizons containing more than 20 percent gravel at depth of 40 inches or more. The typical pedon for the subset taxonomic unit is from Vermilion County (85IL-183-045). MLRA 110.

LA HOGUE SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (77IL-019-023; previously 77IL-10-23). Slopes are adjusted to the MLRA 108A legend.

MARTINSVILLE SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Champaign County (77IL-019-014; previously 77IL-10-14). MLRA 108A.

MIAMI SERIES - See notes for Senachwine series.

MILLBROOK SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (77IL-019-021; previously 77IL-10-21). Slope is added to the map unit name. MLRA 108A.

MONA SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Vermilion County (84IL-183-003). Slopes are adjusted to the MLRA 110 legend.

MORLEY SERIES - See notes for Ozaukee series.

MUSKEGO SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Champaign County (76IL-019-038; previously 76IL-10-38). Slope is added to the map unit name. MLRA 110.

OCKLEY SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Champaign County (76IL-019-005; previously 76IL-10-5). Slopes are adjusted to the MLRA 110 legend.

ODELL SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Champaign County (77IL-019-011; previously 77IL-10-11). Slopes are adjusted to the MLRA 108A legend.

ONARGA SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Champaign County (78IL-019-001; previously 78IL-10-1). Slopes are adjusted to the MLRA 108A legend.

ORTHENTS, LOAMY - Previously correlated for Soil Report # 114. Slope is added to the map unit name.

OZAUKEE SERIES - This series replaces those soils previously mapped as Morley soils. These soils in this county average over 50 percent silt in the lower part of the control section which is outside the range for the Morley series. The typical pedon for the subset taxonomic unit is from DuPage County (97IL-043-004). Slopes are adjusted to the MLRA 110 legend.

PARR SERIES - See notes for Wyanet series.

PELLA SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Bureau County (82IL-011-141). Slope is added to the map unit name. MLRA 108A.

PENFIELD SERIES - This series is established with this correlation and replaces those soils previously mapped as Jasper series. Field investigations identified redoximorphic features in the lower part of the profile below a depth of 40 inches which are not in the range of Jasper series. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (98IL-019-012). MLRA 108A/110.

The Penfield soils in the 687C2 map unit are considered to be taxadjuncts to the series because they have a thinner, dark colored surface layer than defined for the series. They are fine-loamy, mixed, superactive, mesic Mollic Hapludalfs.

PEOTONE SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Ford County (83IL-053-021). Slope is added to the map unit name. MLRA 110.

PITS, GRAVEL - Previously correlated for Soil Report # 114.

PLANO SERIES - See notes for Blackberry series.

PROCTOR SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from McLean County (90IL-113-037). This map unit will be used only to achieve an exact join with McLean County. Also see notes for Clare series. MLRA 108A.

These soils are taxadjuncts to the Proctor series because they have a thinner, dark colored surface layer than defined for the series. They are fine-silty, mixed, superactive, mesic Mollic Hapludalfs.

RAUB SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Champaign County (76IL-019-053; previously 76IL-10-53). Slopes are adjusted to the MLRA 108A legend.

ROSS SERIES - See notes for Rossburg series.

ROSSBURG SERIES - This series replaces those soils previously mapped as taxadjuncts to the Ross series. These soils did not have mollic epipedons thick enough to meet the definition of cumulic. They also had a thicker solum than was allowed in the defined range for the Ross series. Roszburg series was established after the 1980 Champaign County correlation. The typical pedon for the subset taxonomic unit is from Champaign County (77IL-019-025; previously 77IL-10-25). Slope and flooding frequency are added to the map unit name. MLRA 108A.

RUSSELL SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Edgar County (88IL-045-041). The Russell soils in Champaign County have mottling in the lower part of the Bt horizon and in the 2Bt horizon. These mottles are considered to be relict and not an indication of current drainage conditions. Slopes are adjusted to the MLRA 108A legend.

SABINA SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Douglas County (98IL-041-001). Slopes are adjusted to the MLRA 108A legend.

SAWMILL SERIES - This series replaces those soils that were previously mapped as Colo series. Colo series was not correlated in adjoining counties and were considered as similar inclusions in Sawmill map units. Colo soils in Champaign County are re-correlated to Sawmill series in order to achieve an exact join with adjoining counties and continuity of soil mapping in MLRA 108A. The typical pedon for the subset taxonomic unit is from Whiteside County (85IL-195-337). Slope and flooding frequency are added to the map unit name. MLRA 108A.

SELMA SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Lee County (77IL-103-012). Slope is added to the map unit name. MLRA 108A.

SENACHWINE SERIES - This series replaces those soils previously mapped as well drained Miami series (Typic Hapludalfs). Miami series has since been reclassified as Oxyaquic Hapludalfs and are considered to be moderately well drained. The typical pedon for the subset taxonomic unit is the OSD type location in Bureau County (82IL-011-187). Slopes in the map unit 618D2 are adjusted to the MLRA 108A legend. The map unit 618F is added to the legend to join Vermilion County and will also be used in wooded areas.

ST. CHARLES SERIES - See notes for Campton series.

SUNBURY SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Douglas County (98IL-041-003). Slopes are adjusted to the MLRA 108A legend.

SWYGERT SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in Iroquois County (77IL-075-005). Map unit 91A is added to the legend to achieve an exact join with Ford and Vermilion Counties and will be mapped only along those county lines. The map unit 91B is correlated to map units 91B2 and 91C2 to be consistent with the MLRA 110 legend and the legends of adjacent counties.

The Swygert soils in the 91B2 and 91C2 map unit are taxadjuncts to the series because they have a thinner, dark colored surface layer than is defined for the series. They are fine, mixed, superactive, mesic Aquertic Hapludalfs.

THORP SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is the OSD type location in La Salle County (96IL-099-008). Slope is added to the map unit name. MLRA 108A.

URBAN LAND - Previously correlated for Soil Report # 114. Urban land that was correlated in complex with soil components has been dropped from this correlation because rapid expansion of urban development makes map unit delineations obsolete within a short period of time. Map units 2027C, 2152, 2154A, 2171B, 2198A, 2236A, and 2481A will be correlated as consociations of soil series. Map unit descriptions will note inclusions of urban land.

VARNA SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Ford County (81IL-053-016). The map unit 223C2 added to legend to achieve an exact join with Ford County and to be consistent with the legends of adjacent counties. USGS topographic maps will be used to separate the 223B2 and 223C2 map units. Slopes are adjusted to the MLRA 110 legend.

The Varna soils in the 223C2 and 223D3 map units are taxadjuncts to the Varna series because they have thinner, dark colored surface layers than is defined for the series. They are fine, illitic, mesic Oxyaquic Hapludalfs.

WEA SERIES - See notes for Kishwaukee series.

WYANET SERIES - This series replaces those soils previously mapped as well drained Parr series (Typic Argiudolls). Parr series has since been reclassified as Oxyaquic Argiudolls and are considered to be moderately well drained. The typical pedon for the subset taxonomic unit is the OSD type location in Champaign County (76IL-019-024; previously 76IL-10-24). Slopes in the 622D3 map unit are adjusted to the MLRA 108A legend.

The Wyanet soils in the 622C2 and 622D3 map units are taxadjuncts to the Wyanet series because they have a thinner, dark colored surface layer than defined for the series. They are fine-loamy, mixed, superactive, mesic Mollic Hapludalfs.

XENIA SERIES - Previously correlated for Soil Report # 114. The typical pedon for the subset taxonomic unit is from Champaign County (76IL-019-042; previously 76IL-10-42). MLRA 108A.



**PRIME FARMLAND
CHAMPAIGN COUNTY, ILLINOIS**

Map Symbol	Soil MapUnit Name
23A	Blount silt loam, 0 to 2 percent slopes (if drained)
23B2	Blount silt loam, 2 to 4 percent slopes, eroded
56B	Dana silt loam, 2 to 5 percent slopes
56B2	Dana silt loam, 2 to 5 percent slopes, eroded
67A	Harpster silty clay loam, 0 to 2 percent slopes (if drained)
91A	Swygert silty clay loam, 0 to 2 percent slopes
91B2	Swygert silty clay loam, 2 to 4 percent slopes, eroded
91C2	Swygert silty clay loam, 4 to 6 percent slopes, eroded
102A	La Hogue loam, 0 to 2 percent slopes
125A	Selma loam, 0 to 2 percent slopes (if drained)
131B	Alvin fine sandy loam, 2 to 5 percent slopes
134A	Camden silt loam, 0 to 2 percent slopes
134B	Camden silt loam, 2 to 5 percent slopes
146A	Elliott silt loam, 0 to 2 percent slopes
146B2	Elliott silty clay loam, 2 to 4 percent slopes, eroded
146C2	Elliott silty clay loam, 4 to 6 percent slopes, eroded
148B2	Proctor silt loam, 2 to 5 percent slopes, eroded
149A	Brenton silt loam, 0 to 2 percent slopes
150B	Onarga sandy loam, 2 to 5 percent slopes
152A	Drummer silty clay loam, 0 to 2 percent slopes (if drained)
153A	Pella silty clay loam, 0 to 2 percent slopes (if drained)
154A	Flanagan silt loam, 0 to 2 percent slopes
171B	Catlin silt loam, 2 to 5 percent slopes
198A	Elburn silt loam, 0 to 2 percent slopes
206A	Thorp silt loam, 0 to 2 percent slopes (if drained)
219A	Millbrook silt loam, 0 to 2 percent slopes (if drained)
223B2	Varna silt loam, 2 to 4 percent slopes, eroded
223C2	Varna silt loam, 4 to 6 percent slopes, eroded
232A	Ashkum silty clay loam, 0 to 2 percent slopes (if drained)
233B	Birkbeck silt loam, 2 to 5 percent slopes
234A	Sunbury silt loam, 0 to 2 percent slopes
235A	Bryce silty clay, 0 to 2 percent slopes (if drained)
236A	Sabina silt loam, 0 to 2 percent slopes (if drained)
242A	Kendall silt loam, 0 to 2 percent slopes (if drained)
291B	Xenia silt loam, 2 to 5 percent slopes
330A	Peotone silty clay loam, 0 to 2 percent slopes (if drained)
387B	Ockley silt loam, 2 to 5 percent slopes
448B	Mona silt loam, 2 to 5 percent slopes
481A	Raub silt loam, 0 to 2 percent slopes
490A	Odell silt loam, 0 to 2 percent slopes

**SOIL SURVEY OF
CHAMPAIGN COUNTY, ILLINOIS**

CLASSIFICATION OF THE SOILS

Soil Name	Family or higher taxonomic class
Alvin	Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs
Ambraw	Fine-loamy, mixed, superactive, mesic Fluvaquentic Endoaquolls
Ashkum	Fine, mixed, superactive, mesic Typic Endoaquolls
Birkbeck	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Blackberry	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Blount	Fine, illitic, mesic Aeric Epiaqualfs
Brenton	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Bryce	Fine, mixed, superactive, mesic Vertic Endoaquolls
Camden	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Campton	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Catlin	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Chatsworth	Fine, illitic, mesic Oxyaquic Eutrudepts
Clare	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
**Dana	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Drummer	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Elburn	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
**Elliott	Fine, illitic, mesic Aquic Argiudolls
Flanagan	Fine, smectitic, mesic Aquertic Argiudolls
Harpster	Fine-silty, mesic Typic Calciaquolls
Kendall	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Kishwaukee	Fine-loamy, mixed, superactive, mesic Typic Argiudolls
La Hogue	Fine-loamy, mixed, superactive, mesic Aquic Argiudolls
Martinsville	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Millbrook	Fine-silty, mixed, superactive, mesic Udollic Endoaqualfs
Mona	Fine-loamy, mixed, superactive, mesic Oxyaquic Argiudolls
Muskego	Coprogenous, euic, mesic Limnic Haplosaprists
Ockley	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Odell	Fine-loamy, mixed, superactive, mesic Aquic Argiudolls
Onarga	Coarse-loamy, mixed, superactive, mesic Typic Argiudolls
Orthents, loamy	Fine-loamy, mixed, active, nonacid, mesic Aquic Udorthents
Ozaukee	Fine, illitic, mesic Oxyaquic Hapludalfs
Pella	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
**Penfield	Fine-loamy, mixed, superactive, mesic Typic Argiudolls
Peotone	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
*Proctor	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Raub	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Rosburg	Fine-loamy, mixed, superactive, mesic Fluventic Hapludolls
Russell	Fine-silty, mixed, active, mesic Typic Hapludalfs
Sabina	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Sawmill	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Selma	Fine-loamy, mixed, superactive, mesic Typic Endoaquolls
Senachwine	Fine-loamy, mixed, active, mesic Typic Hapludalfs

CHAMPAIGN COUNTY, ILLINOIS

CLASSIFICATION OF THE SOILS (continued)

Soil Name	Family or higher taxonomic class
Sunbury	Fine, smectitic, mesic Aquertic Hapludalfs
**Swygert	Fine, mixed, superactive, mesic Aquertic Argiudolls
Thorp	Fine-silty, mixed, superactive, mesic Argiaquic Argialbolls
**Varna	Fine, illitic, mesic Oxyaquic Argiudolls
**Wyanet	Fine-loamy, mixed, superactive, mesic Typic Argiudolls
Xenia	Fine-silty, mixed, active, mesic Aquic Hapludalfs

(One asterisk in the first column indicates that the soil is a taxadjunct to the series. Two asterisks in the first column indicate that only certain map units are taxadjuncts to the series. See text for a description of those characteristics of the soil that are outside the range of the series.)

CERTIFICATION STATEMENT

The MLRA Region 11 Team Leader certifies that:

- a. The fieldwork activities were completed in November 1998.
- b. Champaign County joins the following MLRA108A and 110 subsets:
 - Douglas County to the south (published 1971)
 - Ford County to the north (published in 1990)
 - McLean County to the west (published in 1998)
 - Piatt County to the west (published 1991)
 - Vermilion County to the east (published 1996)

An exact join will be completed when these counties are updated to the MLRA legend. Ford County is currently being updated with a projected publication date of 1999. McLean County is currently being updated with a projected publication date of 2001.

- c. Interpretations have been coordinated and agree with adjoining survey areas.
- d. The location of all typical pedons has been checked for accuracy, and that they occur in delineations using those names. Typical pedons are those that represent the taxonomic units in MLRA 108A and 110. Not all typical pedons are located in Champaign County, but are within other subsets of those MLRAs.
- e. All typical pedons are classified according to Keys of Soil Taxonomy, Eighth edition, 1998.
- f. The digital soil maps once completed will be reviewed for accuracy and consistency.

Approval Signatures and Date:

Travis Neely 2/11/99
Travis Neely Date
MLRA Region 11 Team Leader
USDA, NRCS
Indianapolis, IN 46278

William J. Gradle
William J. Gradle Date
State Conservationist
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