

**United States Department of Agriculture
Natural Resources Conservation Service**

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

A Subset of MLRA 108B and 115C

January 2003

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Headnote for detailed soil survey legend:

This update of Cass County, Illinois is an update of a subset of the Soil Survey of Major Land Resource Areas (MLRA) 108B and 115C. 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. Map unit symbols without a slope class letter are Miscellaneous units.

Soil Correlation Of
Cass County, Illinois

Field symbols	Field map unit name	Publication symbol	Approved map unit name
8E 8F	HICKORY LOAM, 15 TO 30 PERCENT SLOPES Hickory silt loam, 18 to 35 percent slopes	8F	Hickory silt loam, 18 to 35 percent slopes
8G 8G	Hickory silt loam, 35 to 60 percent slopes HICKORY LOAM, 30 TO 60 PERCENT SLOPES	8G	Hickory silt loam, 35 to 60 percent slopes
17A 17A	KEOMAH SILT LOAM, 0 TO 3 PERCENT SLOPES Keomah silt loam, 0 to 2 percent slopes	17A	Keomah silt loam, 0 to 2 percent slopes
30F 30F	Hamburg silt loam, 18 to 35 percent slopes HAMBURG SILT LOAM, 20 TO 35 PERCENT SLOPES	30F	Hamburg silt loam, 18 to 35 percent slopes
30G	Hamburg silt loam, 35 to 60 percent slopes	30G	Hamburg silt loam, 35 to 60 percent slopes
36C2	Tama silt loam, 5 to 10 percent slopes, eroded	36C2	Tama silt loam, 5 to 10 percent slopes, eroded
43A	Ipava silt loam, 0 to 2 percent slopes	43A	Ipava silt loam, 0 to 2 percent slopes
49 49A	WATSEKA SAND Watseka loamy fine sand, 0 to 2 percent slopes	49A	Watseka loamy fine sand, 0 to 2 percent slopes
43B 51B	IPAVA SILT LOAM, 2 TO 5 PERCENT SLOPES Muscatune silt loam, 2 to 5 percent slopes	51B	Muscatune silt loam, 2 to 5 percent slopes
53B	Bloomfield fine sand, 1 to 7 percent slopes	53B	Bloomfield fine sand, 1 to 7 percent slopes
53D	Bloomfield fine sand, 7 to 15 percent sand	53D	Bloomfield fine sand, 7 to 15 percent sand
54B	Plainfield sand, 1 to 7 percent slopes	54B	Plainfield sand, 1 to 7 percent slopes
54D	Plainfield sand, 7 to 15 percent slopes	54D	Plainfield sand, 7 to 15 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes	68A	Sable silty clay loam, 0 to 2 percent slopes
36B 86B	TAMA SILT LOAM, 2 TO 5 PERCENT SLOPES Osco silt loam, 2 to 5 percent slopes	86B	Osco silt loam, 2 to 5 percent slopes
87B 87B	DICKINSON FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES Dickinson sandy loam, 2 to 5 percent slopes	87B	Dickinson sandy loam, 2 to 5 percent slopes
88B 88B	SPARTA LOAMY SAND, 1 TO 7 PERCENT SLOPES Sparta loamy sand, 1 to 6 percent slopes	88B	Sparta loamy sand, 1 to 6 percent slopes
131B	Alvin fine sandy loam, 2 to 5 percent slopes	131B	Alvin fine sandy loam, 2 to 5 percent slopes
131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded	131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded

Field symbols	Field map unit name	Publication symbol	Approved map unit name
131D 131D	ALVIN FINE SANDY LOAM, 10 TO 15 PERCENT SLOPES Alvin fine sandy loam, 10 to 18 percent slopes	131D	Alvin fine sandy loam, 10 to 18 percent slopes
172 172A	HOOPESTON SANDY LOAM Hoopeston sandy loam, 0 to 2 percent slopes	172A	Hoopeston sandy loam, 0 to 2 percent slopes
188A 188A	Beardstown loam, 0 to 2 percent slopes BEARDSTOWN LOAM, 0 TO 3 PERCENT SLOPES	188A	Beardstown loam, 0 to 2 percent slopes
200 200A	ORIO LOAM Orio loam, 0 to 2 percent slopes	200A	Orio loam, 0 to 2 percent slopes
201 201A	GILFORD SANDY LOAM Gilford fine sandy loam, 0 to 2 percent slopes	201A	Gilford fine sandy loam, 0 to 2 percent slopes
206 206A	THORP SILT LOAM Thorp silt loam, 0 to 2 percent slopes	206A	Thorp silt loam, 0 to 2 percent slopes
244 244A	HARTSBURG SILTY CLAY LOAM Hartsburg silty clay loam, 0 to 2 percent slopes	244A	Hartsburg silty clay loam, 0 to 2 percent slopes
279A	Rozetta silt loam, 0 to 2 percent slopes	279A	Rozetta silt loam, 0 to 2 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes	279B	Rozetta silt loam, 2 to 5 percent slopes
280B	Fayette silt loam, 2 to 5 percent slopes	280B	Fayette silt loam, 2 to 5 percent slopes
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded	280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
280D2 280D2	Fayette silt loam, 10 to 18 percent slopes, eroded Fayette silt loam, 10 to 15 percent slopes, eroded	280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
280E 280F	FAYETTE SILT LOAM, 15 TO 30 PERCENT SLOPES Fayette silt loam, 18 to 35 percent slopes	280F	Fayette silt loam, 18 to 35 percent slopes
430C	Raddle silt loam, 5 to 10 percent slopes	430C	Raddle silt loam, 5 to 10 percent slopes
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded	567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
279B 280B 685B	ROZETTA SILT LOAM, 2 TO 5 PERCENT SLOPES FAYETTE SILT LOAM, 2 TO 5 PERCENT SLOPES Middletown silt loam, 2 to 5 percent slopes	685B	Middletown silt loam, 2 to 5 percent slopes
36A 705A	TAMA SILT LOAM, 0 TO 2 PERCENT SLOPES Buckhart silt loam, 0 to 2 percent slopes	705A	Buckhart silt loam, 0 to 2 percent slopes

Field symbols	Field map unit name	Publication symbol	Approved map unit name
36B 705B	TAMA SILT LOAM, 2 TO 5 PERCENT SLOPES Buckhart silt loam, 2 to 5 percent slopes	705B	Buckhart silt loam, 2 to 5 percent slopes
54B 741B	PLAINFIELD SAND, 1 TO 7 PERCENT SLOPES Oakville fine sand, 1 to 7 percent slopes	741B	Oakville fine sand, 1 to 7 percent slopes
54D 741D	PLAINFIELD SAND, 7 TO 15 PERCENT SLOPES Oakville fine sand, 7 to 15 percent slopes	741D	Oakville fine sand, 7 to 15 percent slopes
54E 741F	PLAINFIELD SAND, 15 TO 30 PERCENT SLOPES Oakville fine sand, 20 to 30 percent slopes	741F	Oakville fine sand, 20 to 30 percent slopes
943E 943F	SEATON-TIMULA SILT LOAMS, 15 TO 30 PERCENT SLOPES Seaton-Timula silt loams, 18 to 35 percent slopes	943F	Seaton-Timula silt loams, 18 to 35 percent slopes
943G 943G	SEATON-TIMULA SILT LOAMS, 30 TO 60 PERCENT SLOPES Seaton-Timula silt loams, 35 to 60 percent slopes	943G	Seaton-Timula silt loams, 35 to 60 percent slopes
19C3 962C3	SYLVAN SILTY CLAY LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED Sylvan-Bold complex, 5 to 10 percent slopes, severely eroded	962C3	Sylvan-Bold complex, 5 to 10 percent slopes, severely eroded
19D2 35D2 962D2	SYLVAN SILT LOAM, 10 TO 15 PERCENT SLOPES, ERODED BOLD SILT LOAM, 7 TO 15 PERCENT SLOPES, ERODED Sylvan-Bold complex, 10 to 18 percent slopes, eroded	962D2	Sylvan-Bold complex, 10 to 18 percent slopes, eroded
19D3 962D3 962D3	SYLVAN SILTY CLAY LOAM, 10 TO 15 PERCENT SLOPES, SEVERELY ERODED SYLVAN-BOLD COMPLEX, 10 TO 15 PERCENT SLOPES, SEVERELY ERODED Sylvan-Bold complex, 10 to 18 percent slopes, severely eroded	962D3	Sylvan-Bold complex, 10 to 18 percent slopes, severely eroded
35E2 962E2 962E2 962E3	BOLD SILT LOAM, 15 TO 30 PERCENT SLOPES, ERODED Sylvan-Bold silt loams, 18 to 25 percent slopes, eroded SYLVAN-BOLD SILT LOAMS, 15 TO 30 PERCENT SLOPES, ERODED BOLD-SYLVAN COMPLEX, 15 TO 30 PERCENT SLOPES, SEVERELY ERODED	962E2	Sylvan-Bold silt loams, 18 to 25 percent slopes, eroded
19E 962F	SYLVAN SILT LOAM, 15 TO 30 PERCENT SLOPES Sylvan-Bold silt loams, 18 to 35 percent slopes	962F	Sylvan-Bold silt loams, 18 to 35 percent slopes
34D 965D2 965D2	TALLULA SILT LOAM, 7 TO 15 PERCENT SLOPES TALLULA-BOLD SILT LOAMS, 7 TO 15 PERCENT SLOPES, ERODED Tallula-Bold silt loams, 10 to 18 percent slopes, eroded	965D2	Tallula-Bold silt loams, 10 to 18 percent slopes, eroded

Field symbols	Field map unit name	Publication symbol	Approved map unit name
965E 965F	TALLULA-BOLD SILT LOAMS, 15 TO 30 PERCENT SLOPES Tallula-Bold silt loams, 18 to 35 percent slopes	965F	Tallula-Bold silt loams, 18 to 35 percent slopes
70 3070L	BEAUCOUP SILTY CLAY LOAM, FREQUENTLY FLOODED Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	3070L	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
3073A 3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded ROSS LOAM, FREQUENTLY FLOODED, 0 TO 3 PERCENT SLOPES	3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
74 3074A	RADFORD SILT LOAM, FREQUENTLY FLOODED Radford silt loam, 0 to 2 percent slopes, frequently flooded	3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
78 3078A	ARENZVILLE SILT LOAM, FREQUENTLY FLOODED Arenzville silt loam, 0 to 2 percent slopes, frequently flooded	3078A	Arenzville silt loam, 0 to 2 percent slopes, frequently flooded
107 3107L	SAWMILL SILTY CLAY LOAM, FREQUENTLY FLOODED Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	3107L	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
3115 3115L	DOCKERY SILT LOAM, FREQUENTLY FLOODED Dockery silt loam, 0 to 2 percent slopes, frequently flooded, long duration	3115L	Dockery silt loam, 0 to 2 percent slopes, frequently flooded, long duration
284 3284L	TICE SILTY CLAY LOAM, FREQUENTLY FLOODED Tice silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	3284L	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
302 3302L	AMBRAW CLAY LOAM, FREQUENTLY FLOODED Ambraw clay loam, 0 to 2 percent slopes, frequently flooded, long duration	3302L	Ambraw clay loam, 0 to 2 percent slopes, frequently flooded, long duration
304A 3304A	LANDES FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded	3304A	Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded
451 3451A	LAWSON SILT LOAM, FREQUENTLY FLOODED Lawson silt loam, 0 to 2 percent slopes, frequently flooded	3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
3070 3641L	BEAUCOUP SILTY CLAY LOAM, FREQUENTLY FLOODED, UNDRAINED Quiver silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	3641L	Quiver silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
682 3682L	MEDWAY LOAM, FREQUENTLY FLOODED Medway loam, 0 to 2 percent slopes, frequently flooded, long duration	3682L	Medway loam, 0 to 2 percent slopes, frequently flooded, long duration
776 3776L	COMFREY CLAY LOAM, FREQUENTLY FLOODED Comfrey clay loam, 0 to 2 percent slopes, frequently flooded, long duration	3776L	Comfrey clay loam, 0 to 2 percent slopes, frequently flooded, long duration

Field symbols	Field map unit name	Publication symbol	Approved map unit name
4776 4776L	COMFREY LOAM, PONDED Comfrey loam, ponded, 0 to 2 percent slopes, frequently flooded, long duration	4776L	Comfrey loam, ponded, 0 to 2 percent slopes, frequently flooded, long duration
37 7037A	WORTHEN SILT LOAM Worthen silt loam, 0 to 2 percent slopes, rarely flooded	7037A	Worthen silt loam, 0 to 2 percent slopes, rarely flooded
81 7081A	LITTLETON SILT LOAM Littleton silt loam, 0 to 2 percent slopes, rarely flooded	7081A	Littleton silt loam, 0 to 2 percent slopes, rarely flooded
87B 7087B	DICKINSON FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES Dickinson sandy loam, 2 to 5 percent slopes, rarely flooded	7087B	Dickinson sandy loam, 2 to 5 percent slopes, rarely flooded
88B 7088B	SPARTA LOAMY SAND, 1 TO 7 PERCENT SLOPES Sparta loamy sand, 1 to 6 percent slopes, rarely flooded	7088B	Sparta loamy sand, 1 to 6 percent slopes, rarely flooded
430B 7430B	RADDLE SILT LOAM, 2 TO 5 PERCENT SLOPES Raddle silt loam, 2 to 5 percent slopes, rarely flooded	7430B	Raddle silt loam, 2 to 5 percent slopes, rarely flooded
7070 8070A	BEAUCOUP SILTY CLAY LOAM, RARELY FLOODED Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded	8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded
71 8071A	DARWIN SILTY CLAY Darwin silty clay, 0 to 2 percent slopes, occasionally flooded	8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded
7078 8078A	ARENZVILLE SILT LOAM, RARELY FLOODED Arenzville silt loam, 0 to 2 percent slopes, occasionally flooded	8078A	Arenzville silt loam, 0 to 2 percent slopes, occasionally flooded
7107 8107A	SAWMILL SILTY CLAY LOAM, RARELY FLOODED Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded	8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded
7284 8284A	TICE SILTY CLAY LOAM, RARELY FLOODED Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded	8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
7302 8302A	AMBRAW CLAY LOAM, RARELY FLOODED Ambraw clay loam, 0 to 2 percent slopes, occasionally flooded	8302A	Ambraw clay loam, 0 to 2 percent slopes, occasionally flooded
7682 8682A	MEDWAY LOAM, RARELY FLOODED Medway loam, 0 to 2 percent slopes, occasionally flooded	8682A	Medway loam, 0 to 2 percent slopes, occasionally flooded
W MW	WATER MISCELLANEOUS WATER	W	MISCELLANEOUS WATER
W	WATER	W	WATER

Series established by this correlation: **None**

Series added to the previously correlated legend (February 1986): Buckhart, Middletown, Muscatune, Oakville, Osco, and Quiver.

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 the
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 the Cass County Soil and Water Conservation District. Financial assistance was made available by the Cass County Board and the Illinois Department of Agriculture."

Prior soil survey publication:

The last soil survey of Cass County was completed in 1986 and published by the United States Department of Agriculture, Natural Resources Conservation Service in 1989. It is Illinois Agricultural Experiment Station Soil Report No. 129 "*Soil Survey of Cass County, Illinois*". Reference to the prior soil survey will be included in the literature citation of the manuscript.

This update survey replaces the prior 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:

Cass county joins four other counties.

Morgan County – Modern soil survey (1989)
Mason County – Modern soil survey (1995)
Sangamon County – Update survey certified 2002

Menard County – This soil survey is an out of date publication (November, 1953). This county is scheduled to be updated and will accept map units from Cass County. The correlation document will not be amended at this time.

Disposition of field sheets:

The 61 published soil atlas sheets at a scale of 1:15,840 were orthorectified and ratioed to a scale of 1:12,000 using Orthomapper software. These 1:12,000 scale orthophoto quarter quad maps serve as the base maps for the update soil survey of Cass County. 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. Digital spatial and attribute data will be provided to the Cass County Board as a part of the cost share cooperative agreement.

Conventional and Special Symbols Legend:

Only those symbols indicated on the NRCS-Soils-37A will be shown on the legend and placed on the soil maps.

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

Soil Survey Area: **CASS COUNTY**
State: **ILLINOIS**

Date: **November, 2002**

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SOIL SURVEY FEATURES					
✓ SOIL DELINEATIONS AND LABELS					
STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES					
Bedrock escarpment					
✓ Non-bedrock escarpment					
Gully					
✓ Levee <i>Single Side Slope</i>					
✓ Short steep slope					
Blowout					
Borrow pit					
Clay spot					
✓ Closed depression					
Gravel pit					
Gravelly spot					
Landfill					
Lava flow					
✓ Marsh or swamp					
Mine or quarry					
Miscellaneous water					
Perennial water					
✓ Rock outcrop					
Saline spot					
✓ Sandy spot					
✓ Severely eroded spot					
Sinkhole					
Slide or slip					
Sodic spot					
Spoil area					
Stony spot					
Very stony spot					
✓ Wet spot					
AD HOC FEATURES (Describe on back)					
LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
---	1	<	---	23	
---	2	∩	---	24	
---	3	□	---	25	
---	4	⊗	---	26	
---	5	∩	---	27	
---	6	∩	---	28	
---	7	⊗	✓ C S P	29	
---	8	⊗	✓ M U C	30	
---	9	⊗	---	31	
---	10	⊗	---	32	
---	11	⊗	---	33	
---	12	∩	---	34	
---	13	∩	---	35	
---	14	∩	---	36	
---	15	∩	---	37	
---	16	∩	---	38	
---	17	∩	---	39	
---	18	∩	✓ G L A	40	
---	19	∩	---	41	
---	20	∩	---	42	
---	21	∩	---	43	
---	22	∩	---	44	
CULTURAL FEATURES (Optional)					
BOUNDARIES					
National, state or province					
✓ County or parish					
Minor civil division					
Reservation (national or state forest or park)					
Limit of soil survey (label) and/or denied access areas					
✓ Field sheet matchline and neatline					
Public Land Survey System Section Boundary					
✓ Public Land Survey System Section Corner Tics					
TRANSPORTATION					
Divided road Normally not shown					
Other road Normally not shown					
Trail Normally not shown					
ROAD EMBLEMS					
Interstate					
✓ Federal					
✓ State					
County, farm or ranch					
LOCATED OBJECTS					
Airport, airfield					
Cemetery					
Church					
Farmstead, house (omit in urban areas)					
Lighthouse					
Located object (label)					
Lookout tower					
Oil and/or natural gas well					
Other Religion (label)					
School					
Soil sample site (compiled only not published)					
Tank (label)					
Windmill					
HYDROGRAPHIC FEATURES (Optional)					
Drainage end (indicates direction of flow)					
Perennial stream					
Intermittent stream					
Unclassified stream					
Perennial drainage or irrigation ditch					
Intermittent drainage or irrigation ditch					
Unclassified drainage or irrigation ditch					
Flood pool line					
Spring					
Well, artesian					
Well, irrigation					

Definitions and Guidelines for Use of Conventional and Special Symbols
for Cass County, Illinois

Description	Label	Definitions and Guidelines
Cultural Features		
Federal, and State Road Emblems		Use appropriate symbols for federal and state roads. Other roads will not be labeled.
Landform Features		
Depression, closed	DEP	A shallow, saucer-shaped area slightly lower on the landscape than the surrounding area, but without a natural outlet for surface drainage. Typically ¼ to 3 acres.
Non-bedrock escarpment	ESO	A relatively continuous and steep slope or cliff generally produced by erosion, but can be produced by faulting breaking the continuity of more gently sloping land surfaces. Exposed nonbedrock material is nonsoil or very shallow, poorly developed soil.
Levee, single side slope	LVS	An embankment that confines or controls water, especially one built along the banks of a river to prevent overflow of lowlands.
Marsh or swamp	MAR	A water saturated, very poorly drained area, intermittently or permanently water-covered. Marsh areas are dominantly covered by sedges, cattails, and rushes. Swamps are dominantly covered by trees or shrubs. Not used in map units where poorly drained or very poorly drained soils are the named components. Typically ½ to 3 acres.
Rock outcrop (includes sandstone and shale)	ROC	An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map unit are shallow over bedrock. Typically ¼ to 2 acres.
Sandy spot	SAN	Surface layer with sand content greater than 75 percent in areas where the surface layer of the named soils of the surrounding map unit have less than about 25 percent sand. Typically ½ to 3 acres.
Severely eroded spot	ERO	An area where on the average 75 percent or more of the original surface layer has been lost from accelerated erosion. Typically ½ to 3 acres.
Short steep slope	SLP	Narrow soil area that has slopes that are at least 2 slope classes steeper than the slope class of the surrounding map unit.
Wet spot	WET	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically ½ to 3 acres.
Ad Hoc features		
Calcareous spot	CSP	Small areas where the soil surface layer is calcareous (reacts to 1N HCL) in areas where the surface layer of the named soils do not react. Typically ¼ to 2 acres.
Muck spot	MUC	Small areas where the soil consists primarily of organic material. May or may not be highly decomposed. Does not include areas having thin stratified layers of muck. Typically ¼ to 2 acres.
Glacial till spot	GLA	Areas where the surface layer is loamy glacial till. Stones are often scattered over the surface. Found primarily in moderately sloping to steep mapping units having loess parent material. Includes areas where a paleosol is still present. Typically ¼ to 2 acres.

Conversion Legend for the Update Soil Survey of
Cass County, Illinois

Field symbols	Publication symbol
8E	8F
8F	8F
8G	8G
17A	17A
19C3	962C3
19D2	962D2
19D3	962D3
19E	962F
30F	30F
30G	30G
34D	965D2
35D2	962D2
35E2	962E2
36A	705A
36B	86B
36B	705B
36C2	36C2
37	7037A
43A	43A
43B	51B
49	49A
49A	49A
51B	51B
53B	53B
53D	53D
54B	54B
54B	741B
54D	54D
54D	741D
54E	741F
68A	68A
70	3070L
71	8071A
74	3074A
78	3078A
81	7081A
86B	86B
87B	87B
87B	7087B
88B	88B
88B	7088B
107	3107L
131B	131B

Field symbols	Publication symbol
131C2	131C2
131D	131D
172	172A
172A	172A
188A	188A
200	200A
200A	200A
201	201A
201A	201A
206	206A
206A	206A
244	244A
244A	244A
279A	279A
279B	279B
279B	685B
280B	280B
280B	685B
280C2	280C2
280D2	280D2
280E	280F
280F	280F
284	3284L
302	3302L
304A	3304A
430B	7430B
430C	430C
451	3451A
567C2	567C2
682	3682L
685B	685B
741B	741B
741D	741D
741F	741F
705A	705A
705B	705B
776	3776L
943E	943F
943G	943G
962C3	962C3
962D2	962D2
962D3	962D3
962E2	962E2

Field symbols	Publication symbol
962E3	962E2
962F	962F
965D2	965D2
965E	965F
965F	965F
3070	3641L
3070L	3070L
3073A	3073A
3074A	3074A
3078A	3078A
3107L	3107L
3115	3115L
3115L	3115L
3284L	3284L
3302L	3302L
3304A	3304A
3451A	3451A
3641L	3641L
3682L	3682L
3776L	3776L
4776	4776L
4776L	4776L
7037A	7037A
7070	8070A
7078	8078A
7081A	7081A
7087B	7087B
7088B	7088B
7107	8107A
7284	8284A
7302	8302A
7430B	7430B
7682	8682A
8070A	8070A
8071A	8071A
8078A	8078A
8107A	8107A
8284A	8284A
8302A	8302A
8682A	8682A

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.

CASS COUNTY, ILLINOIS ALPHABETICAL SOIL MAP LEGEND

Map symbol	Soil name
131B	Alvin fine sandy loam, 2 to 5 percent slopes
131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded
131D	Alvin fine sandy loam, 10 to 18 percent slopes
3302L	Ambraw clay loam, 0 to 2 percent slopes, frequently flooded, long duration
8302A	Ambraw clay loam, 0 to 2 percent slopes, occasionally flooded
3078A	Arenzville silt loam, 0 to 2 percent slopes, frequently flooded
8078A	Arenzville silt loam, 0 to 2 percent slopes, occasionally flooded
188A	Beardstown loam, 0 to 2 percent slopes
3070L	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded
53B	Bloomfield fine sand, 1 to 7 percent slopes
53D	Bloomfield fine sand, 7 to 15 percent sand
705A	Buckhart silt loam, 0 to 2 percent slopes
705B	Buckhart silt loam, 2 to 5 percent slopes
3776L	Comfrey clay loam, 0 to 2 percent slopes, frequently flooded, long duration
4776L	Comfrey loam, ponded, 0 to 2 percent slopes, frequently flooded, long duration
8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded
87B	Dickinson fine sandy loam, 2 to 5 percent slopes
7087B	Dickinson fine sandy loam, 2 to 5 percent slopes, rarely flooded
3115L	Dockery silt loam, 0 to 2 percent slopes, frequently flooded, long duration
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded
280B	Fayette silt loam, 2 to 5 percent slopes
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded
280F	Fayette silt loam, 18 to 35 percent slopes
201A	Gilford sandy loam, 0 to 2 percent slopes
30F	Hamburg silt loam, 18 to 35 percent slopes
30G	Hamburg silt loam, 35 to 60 percent slopes
244A	Hartsburg silty clay loam, 0 to 2 percent slopes
8F	Hickory silt loam, 18 to 35 percent slopes
8G	Hickory silt loam, 35 to 60 percent slopes
172A	Hoopeston sandy loam, 0 to 2 percent slopes
43A	Ipava silt loam, 0 to 2 percent slopes
17A	Keomah silt loam, 0 to 2 percent slopes
3304A	Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded
7081A	Littleton silt loam, 0 to 2 percent slopes, rarely flooded
3682L	Medway loam, 0 to 2 percent slopes, frequently flooded, long duration
8682A	Medway loam, 0 to 2 percent slopes, occasionally flooded
685B	Middletown silt loam, 2 to 5 percent slopes
51B	Muscataune silt loam, 2 to 5 percent slopes
741B	Oakville fine sand, 1 to 7 percent slopes
741D	Oakville fine sand, 7 to 15 percent slopes
741F	Oakville fine sand, 20 to 30 percent slopes
200A	Orio loam, 0 to 2 percent slopes
86B	Osco silt loam, 2 to 5 percent slopes
54B	Plainfield sand, 1 to 7 percent slopes
54D	Plainfield sand, 7 to 15 percent slopes
3641L	Quiver silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
7430B	Raddle silt loam, 2 to 5 percent slopes, rarely flooded
430C	Raddle silt loam, 5 to 10 percent slopes
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded
3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded
279A	Rozetta silt loam, 0 to 2 percent slopes
279B	Rozetta silt loam, 2 to 5 percent slopes
68A	Sable silty clay loam, 0 to 2 percent slopes

CASS COUNTY, ILLINOIS ALPHABETICAL SOIL MAP LEGEND-continued

Map symbol	Soil name
3107L	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded
943F	Seaton-Timula silt loams, 18 to 35 percent slopes
943G	Seaton-Timula silt loams, 35 to 60 percent slopes
88B	Sparta loamy sand, 1 to 6 percent slopes
7088B	Sparta loamy sand, 1 to 6 percent slopes, rarely flooded
962C3	Sylvan-Bold complex, 5 to 10 percent slopes, severely eroded
962D2	Sylvan-Bold complex, 10 to 18 percent slopes, eroded
962D3	Sylvan-Bold complex, 10 to 18 percent slopes, severely eroded
962E2	Sylvan-Bold silt loams, 18 to 25 percent slopes, eroded
962F	Sylvan-Bold silt loams, 18 to 35 percent slopes
965D2	Tallula-Bold silt loams, 10 to 18 percent slopes, eroded
965F	Tallula-Bold silt loams, 18 to 35 percent slopes
36C2	Tama silt loam, 5 to 10 percent slopes, eroded
206A	Thorp silt loam, 0 to 2 percent slopes
3284L	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
49A	Watseka sand, 0 to 2 percent slopes
7037A	Worthen silt loam, 0 to 2 percent slopes, rarely flooded

**Classification of Pedons Sampled for Laboratory Analysis
For Cass County, Illinois
A Subset of MLRA 108B and 115C.**

There were no additional pedons sampled during this update. The list of pedons sampled for analysis is contained in the 1986 correlation document.

**Notes to Accompany the Classification and Correlation
of Cass County, Illinois
Prepared by John W. Ford and John C. Doll**

(Table sorted by component name.)

Mapunit symbol	Mapunit Name	Mapunit text notes and Mapunit History
131B	Alvin fine sandy loam, 2 to 5 percent slopes	(1)
131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded	(1)
131D	Alvin fine sandy loam, 10 to 18 percent slopes	(1)
3302L	Ambraw clay loam, 0 to 2 percent slopes, frequently flooded, long duration	(1)
8302A	Ambraw clay loam, 0 to 2 percent slopes, occasionally flooded	(1) Cg value 6, 3 not in RIC otherwise OK. Taxonomy OK
3078A	Arenzville silt loam, 0 to 2 percent slopes, frequently flooded	(1)
8078A	Arenzville silt loam, 0 to 2 percent slopes, occasionally flooded	(1)
188A	Beardstown loam, 0 to 2 percent slopes	(1)
3070L	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	(1)
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded	(1)
53B	Bloomfield fine sand, 1 to 7 percent slopes	(1) These soils in Cass County contain more clay in the particle size control section (sandy loam textures in the lamellae)
53D	Bloomfield fine sand, 7 to 15 percent sand	(1) These soils in Cass County contain more clay in the particle size control section (sandy loam textures in the Lamellae)
705A	Buckhart silt loam, 0 to 2 percent slopes	(2) The soils in this unit are more acid than moderately acid in the middle Bt horizon and more acid than neutral in the lower Bt and C horizons than is typical for the series. John Ford 10/02/2002 36A correlated to 705A in the update.
705B	Buckhart silt loam, 2 to 5 percent slopes	(2) 36B correlated to 86B in isolated areas and 705B in broad flat areas in the Cass County update.
3776L	Comfrey clay loam, 0 to 2 percent slopes, frequently flooded, long duration	(1)
4776L	Comfrey loam, ponded, 0 to 2 percent slopes, frequently flooded, long duration	(1)
8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded	(1)
87B	Dickinson sandy loam, 2 to 5 percent slopes	(1) 87B has been correlated to 87B on non-flooded positions.
7087B	Dickinson sandy loam, 2 to 5 percent slopes, rarely flooded	(2) 87B has been correlated to 7087B on rarely flooded positions.
3115L	Dockery silt loam, 0 to 2 percent slopes, frequently flooded, long duration	(1)
567C2	Elkhart silt loam, 5 to 10 percent slopes, eroded	(1) This map unit is a taxadjunct to the series as the mollic epipedon is thinner than defined for the series. It classifies as fine-silty, mixed, superactive, mesic Mollic Hapludalfs.

Mapunit symbol	Mapunit Name	Mapunit text notes and Mapunit History
280B	Fayette silt loam, 2 to 5 percent slopes	(1) 280B has been correlated to 685B (Middletown) in the NE corner of Cass County on the bluff tops where 280B is mapped next to sandy soils. 280B remains the same in the rest of the county.
280C2	Fayette silt loam, 5 to 10 percent slopes, eroded	(1)
280D2	Fayette silt loam, 10 to 18 percent slopes, eroded	(1)
280F	Fayette silt loam, 18 to 35 percent slopes	(1)
201A	Gilford fine sandy loam, 0 to 2 percent slopes	(1)
30F	Hamburg silt loam, 18 to 35 percent slopes	(1)
30G	Hamburg silt loam, 35 to 60 percent slopes	(1)
244A	Hartsburg silty clay loam, 0 to 2 percent slopes	(1)
8F	Hickory silt loam, 18 to 35 percent slopes	(1)
8G	Hickory silt loam, 35 to 60 percent slopes	(1)
172A	Hoopeston sandy loam, 0 to 2 percent slopes	(1)
43A	Ipava silt loam, 0 to 2 percent slopes	(1)
17A	Keomah silt loam, 0 to 2 percent slopes	(1)
3304A	Landes fine sandy loam, 0 to 2 percent slopes, frequently flooded	(1)
3451A	Lawson silt loam, 0 to 2 percent slopes, frequently flooded	(1)
7081A	Littleton silt loam, 0 to 2 percent slopes, rarely flooded	(1)
3682L	Medway loam, 0 to 2 percent slopes, frequently flooded, long duration	(1) The C horizon has more sand than is typical for the series. Taxonomy OK
8682A	Medway loam, 0 to 2 percent slopes, occasionally flooded	(1)
685B	Middletown silt loam, 2 to 5 percent slopes	(2) 279B and 280B have been correlated to 685B in the NE corner of Cass County on the bluff tops where 279B and 280B are mapped next to sandy soils. 279B and 280B remain the same in the rest of the county.
51B	Muscataine silt loam, 2 to 5 percent slopes	(2) 43B correlated to 51B in the Cass Co. update.
741B	Oakville fine sand, 1 to 7 percent slopes	(2) 54B is correlated to 741B on the bluff tops in the Cass county update.
741D	Oakville fine sand, 7 to 15 percent slopes	(1) 54D is correlated to 741D on the bluff tops in the Cass county update.
741F	Oakville fine sand, 20 to 30 percent slopes	(2) 54E is correlated to 741F on the bluff tops in the Cass county update.
200A	Orio loam, 0 to 2 percent slopes	(1)
86B	Oscos silt loam, 2 to 5 percent slopes	(2) 36B correlated to 86B in dissected areas of similar slope in the Cass County update.
54B	Plainfield sand, 1 to 7 percent slopes	(1) 54B is correlated to 54B on terrace areas and to 741B on the bluff tops.
54D	Plainfield sand, 7 to 15 percent slopes	(1) 54D is correlated to 54D on terrace areas and to 741D on the bluff tops.

Mapunit symbol	Mapunit Name	Mapunit text notes and Mapunit History
3641L	Quiver silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	(2) 3070, undrained, has been correlated to 3641L primarily in wooded areas located in the flood plain that are unprotected by levees.
7430B	Raddle silt loam, 2 to 5 percent slopes, rarely flooded	(1)
430C	Raddle silt loam, 5 to 10 percent slopes	(1)
3074A	Radford silt loam, 0 to 2 percent slopes, frequently flooded	(1)
3073A	Ross silt loam, 0 to 2 percent slopes, frequently flooded	(1)
279A	Rozetta silt loam, 0 to 2 percent slopes	(1)
279B	Rozetta silt loam, 2 to 5 percent slopes	(1) 279B has been correlated to 685B in the NE corner of Cass County on the bluff tops where 279B is mapped next to sandy soils. 279B remains the same in the rest of the county.
68A	Sable silty clay loam, 0 to 2 percent slopes	(1)
3107L	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	(1)
8107A	Sawmill silty clay loam, 0 to 2 percent slopes, occasionally flooded	(1)
943F	Seaton-Timula silt loams, 18 to 35 percent slopes	(1)
943G	Seaton-Timula silt loams, 35 to 60 percent slopes	(1)
88B	Sparta loamy sand, 1 to 6 percent slopes	(1) 88B has been correlated to 88B and 7088B in rarely flooded positions.
7088B	Sparta loamy sand, 1 to 6 percent slopes, rarely flooded	(2) 88B has been correlated to 88B and 7088B, rarely flooded.
962D2	Sylvan-Bold complex, 10 to 18 percent slopes, eroded	(1) 35D,35D2 and 19D2 correlated to this map unit.
962D3	Sylvan-Bold complex, 10 to 18 percent slopes, severely eroded	(1) This map unit replaces the Sylvan consociation on similar slopes
962C3	Sylvan-Bold complex, 5 to 10 percent slopes, severely eroded	(1) 19C3 has been correlated to 962C3 because Bold inclusions were noted in the individual Sylvan map units.
962E2	Sylvan-Bold silt loams, 18 to 25 percent slopes, eroded	(1) This map unit complex replaces the Bold consociation on similar slopes.
962F	Sylvan-Bold silt loams, 18 to 35 percent slopes	(1) This map unit complex replaces the Sylvan consociation on similar slopes.
965D2	Tallula-Bold silt loams, 10 to 18 percent slopes, eroded	(1) This map unit complex replaces the Tallula consociation on similar slopes.
965F	Tallula-Bold silt loams, 18 to 35 percent slopes	(1)
36C2	Tama silt loam, 5 to 10 percent slopes, eroded	(1) This map unit is a taxadjunct to the series as the mollic epipedon is thinner than defined for the series. It classifies as fine-silty, mixed, superactive, mesic Mollic Hapludalfs. Bt too thick by 22 inches, No BC, BA 2 inches too thick.
206A	Thorp silt loam, 0 to 2 percent slopes	(1)

Mapunit symbol	Mapunit Name	Mapunit text notes and Mapunit History
3284L	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	(1)
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded	(1)
49A	Watseka loamy fine sand, 0 to 2 percent slopes	(1)
7037A	Worthen silt loam, 0 to 2 percent slopes, rarely flooded	(2) 37 correlated to 7037A rarely flooded in the Cass Co. update.

(1) Map unit copied from published legend to the updated legend and assigned status of "APPROVED". JWF 9/13/2002 or JWF 7/26/2002

(2) Map unit created and assigned status of "APPROVED" for the update legend. Not previously on the county legend. JWF 9/16/2002

LEGEND TEXT NOTES
Cass County, Illinois

Map unit slopes for upland, non-sandy soils were adjusted to fit the MLRA 108B and MLRA 115 Legends. Slope classes of mapunits 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
A	0-3	A	0-2
B	2-5	B	2-5
C	5-10	C	5-10
D	7-15	D	10-18
D	10-15	D	10-18
E	15-30	F	18-35
E2	15-30	E2	18-25
F	20-35	F	18-35
G	30-60	G	35-60
G	35-60	G	35-60

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

- MAJOR**
A goes to A
B goes to B
C goes to C
D goes to D
E2,E3 goes to E2
E goes to F
F goes to F
G goes to G

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.

With this update, all map units, 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

- 1 Undrained, frequently flooded
- 3 Frequently flooded
- 4 Poned
- 7 Rarely flooded
- 8 Occasionally flooded
- 9 Terrace phase

Suffix Description

- L Long duration flooding

Map unit slopes for sandy soils were adjusted to fit the MLRA 114 and MLRA 115 Legends. Slope classes of mapunits 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
A	0-3	A	0-2
B	1-7	B	1-6 (Sparta)
B	1-7	B	1-7
B	1-5	B	2-5 (Dickinson)
B	2-5	B	2-5
C	5-10	C	5-10
D	7-15	D	7-15
D	10-15	D	10-18
E	15-30 (Plainfield)	F	20-30

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

- MAJOR**
A goes to A
B goes to B
C goes to C
D goes to D
E goes to F

Listing of mapunit representative pedons, taxonomic unit representative pedons, and mapunit DMU number for Cass County, Illinois map units.

Map sym	Mapunit pedons	TUD Pedon	DMU ID
8F	94IL-057-141	No	140215
8G	95IL-017-002	Hickory --- 95IL-017-002	141748
17A	95IL-001-023	Keomah --- 95IL-001-023	141750
30F	---	No	140216
30G	81IL-017-050	Hamburg --- 81IL-017-050	153688
36C2	85IL-125-023	Tama --- 00IL-67-001	156339
43A	78IL-095-016	Ipava --- 78IL-095-016	139401
430C	83IL-017-024 (5)	No	434107
49A	85IL-195-346	Watseka --- 85IL-195-346	142697
51B	81IL-017-018	Muscataune --- 86IL-187-100	433876
53B	OSD pedon	Lawrence County OSD pedon	433888
53D	81IL-017-055 (5)	No	433889
54B	81IL-017-066 (5)	Plainfield --- 81IL-017-066(5)	433890
54D	81IL-017-029 (4)	No	433891
68A	57IL-187-001	Sable --- 57IL-187-001	139403
86B	56IL-015-002	Osco --- 56IL-015-002	141764
87B	83IL-131-032	Dickinson --- 83IL-131-032	155574
88B	96IL-001-069	Sparta --- 96IL-001-069	141765
131B	85IL-183-024	Alvin --- 85IL-183-024	153448
131C2	86IL-021-002	No	154107
131D	---	No	434239
172A	84IL-195-314	Hoopeston --- 84IL-195-314	151279
188A	82IL-017-009	Beardstown --- 82IL-017-009	433962
200A	78IL-073-057	Orio --- 78IL-073-057	142726
201A	83IL-195-124	Gilford --- 83IL-195-124	142727
206A	96IL-099-008	Thorp --- 96IL-099-008	142728
244A	96IL-107-010	Hartsburg --- 96IL-107-010	153413
279A	96IL-177-012	Rozetta --- 96IL-177-012	151308
279B	95IL-057-001	No	141790
280B	84IL-195-315	No	142746
280C2	93IL-057-013	No	139433
280D2	87IL-187-018	Fayette --- 87IL-187-018	140168
280F	83IL-017-023 (8)	No	434100
567C2	---	Elkhart --- 96IL-107-015	433848
685B	00IL-167-003	Middletown --- 00IL-167-003	154979
705A	00IL-161-001	No	434236
705B	99IL-021-003	Buckhart --- 99IL-021-003	153985
741B	82IL-011-184	Oakville --- 82IL-011-184	151360
741D	---	No	151361
741F	---	No	434103
943F	Timula --- 83IL-017-032 (8); Seaton ---	No Seaton --- 79IL-073-117	434112
943G	Timula --- 82IL-017-001 (8); Seaton --- 81IL-017-031 (8)	Timula --- 82IL-017-001(8) No	152435
962C3	Sylvan --- 82IL-017-011 (1-5); Bold --- 82IL-017-012 (1-3)	No Bold --- 82IL-017-012(1-3)	434113

Map sym	Mapunit pedons	TUD Pedon	DMU ID
962D2		No	156055
962D3	Sylvan --- 81IL-017-064 (5); Bold --- 81IL-017-030 (4)	No No	155565
962E2	Seaton --- 82IL-017-038 (7); Bold ---82IL-017-039 (3)	No No	434114
962F	Sylvan --- 95IL-017-033; Bold ---	Sylvan --- 95IL-017-033 No	436530
965D2	Tallula --- 82IL-017-032 (6); Bold --- 82IL-017-033 (1-4)	Tallula --- 81IL-017-023(6) No	434115
965F	Tallula --- 83IL-017-021 (6); Bold --- 83IL-017-020 (6)	No No	434122
3070L	81IL-017-062	No	142107
3073A	85IL-179-017	Ross --- 85IL-179-017	154980
3074A	84IL-017-001	Radford --- 84IL-017-001	153414
3078A	81IL-017-007 (6)	Arenzville --- 81IL-017-007(6)	433939
3107L	---	No	434104
3115L	83IL-017-035 (4)	Dockery --- 83IL-017-035(4)	434126
3284L	83IL-017-001	No	434040
3302L	83IL-017-019 (7)	No	155824
3304A	82IL-017-017	Landes --- 82IL-017-017	155163
3451A	97IL-001-014	Lawson --- 97IL-001-014	141801
3641L	94IL-057-166	Quiver --- 94IL-057-166	152955
3682L	83IL-017-038 (7)	No	434109
3776L	83IL-017-027 (7)	Comfrey --- 83IL-017-027(7)	434111
4776L	83IL-017-051 (1-4)	No	434127
7037A	---	Worthen --- 95IL-606-042	434238
7081A	---	Littleton --- 96IL-001-068	141763
7087B	88IL-169-005	No	433940
7088B	---	No	433941
7430B	90IL-057-029	Raddle --- 90IL-057-029	155731
8070A	95IL-001-008	Beaucoup --- 95IL-001-008	141852
8071A	89IL-169-029	Darwin --- 89IL-169-029	155835
8078A	---	No	434128
8107A	85IL-039-023	Sawmill --- 99IL-167-008	155363
8284A	96IL-001-060	Tice --- 96IL-001-060	141861
8302A	94IL-057-143	Ambraw --- 94IL-057-143	140196
8682A	83IL-017-043	Medway --- 83IL-017-043	434130

Classification of the Soils of Cass 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
Alvin-----	Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs
Ambraw-----	Fine-loamy, mixed, superactive, mesic Fluvaquentic Endoaquolls
Arenzville-----	Coarse-silty, mixed, superactive, nonacid, mesic Typic Udifluvents
Beardstown-----	Fine-loamy, mixed, superactive, mesic Udollic Endoaqualfs
Beaucoup-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Endoaquolls
Bloomfield-----	Sandy, mixed, mesic Lamellic Hapludalfs
Bold-----	Coarse-silty, mixed, superactive, calcareous, mesic Typic Udorthents
Buckhart-----	Fine-silty, mixed, superactive, mesic Oxyaquic Argiudolls
Comfrey-----	Fine-loamy, mixed, superactive, mesic Cumulic Endoaquolls
Darwin-----	Fine, smectitic, mesic Fluvaquentic Vertic Endoaquolls
Dickinson-----	Coarse-loamy, mixed, superactive, mesic Typic Hapludolls
Dockery-----	Fine-silty, mixed, superactive, nonacid, mesic Aquic Udifluvents
*Elkhart-----	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Fayette-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Gilford-----	Coarse-loamy, mixed, superactive, mesic Typic Endoaquolls
Hamburg-----	Coarse-silty, mixed, superactive, calcareous, mesic Typic Udorthents
Hartsburg-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Hickory-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Hoopeston-----	Coarse-loamy, mixed, superactive, mesic Aquic Hapludolls
Ipava-----	Fine, smectitic, mesic Aquic Argiudolls
Keomah-----	Fine, smectitic, mesic Aeric Endoaqualfs
Landes-----	Coarse-loamy, mixed, superactive, mesic Fluventic Hapludolls
Lawson-----	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Littleton-----	Fine-silty, mixed, superactive, mesic Aquic Cumulic Hapludolls
Medway-----	Fine-loamy, mixed, superactive, mesic Fluvaquentic Hapludolls
Middletown-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Muscatune-----	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Oakville-----	Mixed, mesic Typic Udipsamments
Orio-----	Fine-loamy, mixed, active, mesic Mollic Endoaqualfs
Osco-----	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Plainfield-----	Mixed, mesic Typic Udipsamments
Quiver-----	Fine-silty, mixed, superactive, nonacid, mesic Mollic Fluvaquents
Raddle-----	Fine-silty, mixed, superactive, mesic Typic Hapludolls
Radford-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Ross-----	Fine-loamy, mixed, superactive, mesic Cumulic Hapludolls
Rozetta-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Sable-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Sawmill-----	Fine-silty, mixed, superactive, mesic Cumulic Endoaquolls
Seaton-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Sparta-----	Sandy, mixed, mesic Entic Hapludolls
Sylvan-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Tallula-----	Coarse-silty, mixed, superactive, mesic Typic Hapludolls
*Tama-----	Fine-silty, mixed, superactive, mesic Typic Argiudolls
Thorp-----	Fine-silty, mixed, superactive, mesic Argiaquic Argialbolls
Tice-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Timula-----	Coarse-silty, mixed, superactive, mesic Typic Eutrudepts
Watseka-----	Sandy, mixed, mesic Aquic Hapludolls
Worthen-----	Fine-silty, mixed, superactive, mesic Cumulic Hapludolls

Certification Statement

The MLRA Region 11 Team Leader certifies that:

a. The fieldwork activities were completed in 4th quarter 2002.

b. Cass County joins four modern soil surveys:

Morgan County- Modern soil survey (1989)

Mason County- Modern soil survey (1995)

Sangamon County- Update survey certified 2002

Menard County-Modern soil survey (1953)

An exact join has been completed with Sangamon County. An acceptable join has been completed with Morgan, Mason, and Menard Counties and will have an exact join when they are updated to the MLRA legend.

c. Interpretations have been coordinated and agree with adjoining survey areas.

d. The locations of all typical pedons have been checked for accuracy, and that they occur in delineations using those names. Typical pedons are those that represent the taxonomic units in MLRA 115C. Not all typical pedons are located in Cass County.

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:

Travis Neely Date
Team Leader, MLRA Region 11
Indianapolis, Indiana

William J. Gradle Date
State Conservationist
Champaign, Illinois