

## Land Capability Classification

The land capability classification of map units in the survey area is shown in this table. This classification shows, in a general way, the suitability of soils for most kinds of field crops (United States Department of Agriculture, Soil Conservation Service, 1961). Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not include major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for rangeland, for forestland, or for engineering purposes.

In the capability system, soils are generally grouped at three levels: capability class, subclass, and unit.

*Capability classes*, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use. The classes are defined as follows:

- Class 1 soils have slight limitations that restrict their use.
- Class 2 soils have moderate limitations that restrict the choice of plants or that require moderate conservation practices.
- Class 3 soils have severe limitations that restrict the choice of plants or that require special conservation practices, or both.
- Class 4 soils have very severe limitations that restrict the choice of plants or that require very careful management, or both.
- Class 5 soils are subject to little or no erosion but have other limitations, impractical to remove, that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.
- Class 6 soils have severe limitations that make them generally unsuitable for cultivation and that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.
- Class 7 soils have very severe limitations that make them unsuitable for cultivation and that restrict their use mainly to grazing, forestland, or wildlife habitat.
- Class 8 soils and miscellaneous areas have limitations that preclude commercial plant production and that restrict their use to recreational purposes, wildlife habitat, watershed, or esthetic purposes.

*Capability subclasses* are soil groups within one class. They are designated by adding a small letter, *e*, *w*, *s*, or *c*, to the class numeral, for example, 2e. The letter *e* shows that the main hazard is the risk of erosion unless close-growing plant cover is maintained; *w* shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); *s* shows that the soil is limited mainly because it is shallow, droughty, or stony; and *c*, used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

In class 1 there are no subclasses because the soils of this class have few limitations. Class 5 contains only the subclasses indicated by *w*, *s*, or *c* because the soils in class 5 are subject to little or no erosion.

## Report—Land Capability Classification

Land Capability Classification—Champaign County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ag—Algiers silt loam				
	95	Algiers	2w	—
BsA—Brookston silty clay loam, fine texture, 0 to 2 percent slopes				
	90	Brookston	2w	—
BsB—Brookston silty clay loam, 2 to 6 percent slopes				
	100	Brookston	2w	—
Ca—Carlisle muck				
	100	Carlisle	3w	—
CcB—Casco loam, 2 to 6 percent slopes				
	100	Casco	3e	—
CcC2—Casco loam, 6 to 12 percent slopes, moderately eroded				
	100	Casco	4e	—
CfD2—Casco gravelly loam, 12 to 20 percent slopes, eroded				
	80	Casco	6e	—
CgD2—Casco gravelly loam, 12 to 18 percent slopes, moderately eroded				
	100	Casco	6e	—
ChD2—Casco-Eldean complex, 12 to 18 percent slopes, moderately eroded				
	60	Casco	6e	—
	40	Eldean	4e	—
CmD2—Casco-Miami-Fox complex, 12 to 18 percent slopes, moderately eroded				
	40	Miami	4e	—
	40	Casco	6e	—
	20	Fox	4e	—
CnA—Celina silt loam, 0 to 2 percent slopes				
	95	Celina	1	—

Land Capability Classification--Champaign County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CnB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—
CnB2—Celina silt loam, 2 to 6 percent slopes, moderately eroded				
	95	Celina	2e	—
CnC2—Celina silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Celina	3e	—
CoB—Celina bouldery silt loam, 2 to 6 percent slopes				
	95	Celina	2e	—
CrA—Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	90	Crosby	2w	—
CrB—Crosby silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes				
	90	Crosby	2e	—
CsB—Crosby bouldery silt loam, 0 to 6 percent slopes				
	95	Crosby	2e	—
CtA—Crosby-Lewisburg silt loams, 0 to 2 percent slopes				
	55	Crosby	2w	—
	35	Lewisburg	2w	—
CtB—Crosby-Lewisburg silt loams, 2 to 6 percent slopes				
	55	Crosby	2e	—
	35	Lewisburg	2e	—
DeB—Del Rey silt loam, 2 to 6 percent slopes				
	95	Del rey	2e	—
Ed—Edwards muck				
	100	Edwards	4w	—
Ee—Eel silt loam				
	95	Eel	2w	—
EmA—Eldean silt loam, 0 to 2 percent slopes				
	75	Eldean	2s	—
EmB—Eldean silt loam, 2 to 6 percent slopes				
	85	Eldean	2e	—

Land Capability Classification--Champaign County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EmB2—Eldean silt loam, 2 to 6 percent slopes, eroded				
	75	Eldean	2e	—
EmC2—Eldean silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Eldean	3e	—
EpC2—Eldean-Miamian complex, 6 to 12 percent slopes, eroded				
	50	Eldean	3e	—
	35	Miamian	3e	—
EpD2—Eldean-Miamian complex, 12 to 18 percent slopes, eroded				
	45	Eldean	4e	—
	40	Miamian	4e	—
EpE2—Eldean-Miamian complex, 18 to 30 percent slopes, eroded				
	45	Eldean	6e	—
	40	Miamian	6e	—
FIB—Fox loam, 2 to 6 percent slopes				
	100	Fox	2e	—
FmB—Fox sandy loam, 2 to 6 percent slopes				
	100	Fox	2e	—
FnA—Fox silt loam, 0 to 2 percent slopes				
	100	Fox	2s	—
FnB—Fox silt loam, 2 to 6 percent slopes				
	100	Fox	2e	—
FnB2—Fox silt loam, 2 to 6 percent slopes, moderately eroded				
	100	Fox	2e	—
FnC2—Fox silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Fox	3e	—
FoC2—Fox-Miami silt loams, 6 to 12 percent slopes, moderately eroded				
	60	Fox	3e	—
	40	Miami	3e	—
Gn—Genesee silt loam				
	95	Genesee	2w	—

Land Capability Classification--Champaign County, Ohio				
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			Nonirrigated	Irrigated
Go—Genesee silt loam, till substratum, occasionally flooded				
	75	Genesee	2w	—
Gwg5C2—Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded				
	85	Glynwood	3e	—
HeA—Henshaw silt loam, 0 to 2 percent slopes				
	95	Henshaw	2w	—
HeB—Henshaw silt loam, 2 to 6 percent slopes				
	95	Henshaw	2e	—
HoA—Homer silt loam, 0 to 2 percent slopes				
	95	Homer	2w	—
IoA—Ionia silt loam, 0 to 2 percent slopes				
	95	Ionia	2s	—
IoB—Ionia silt loam, 2 to 6 percent slopes				
	95	Ionia	2e	—
KaA—Kane silt loam, 0 to 2 percent slopes				
	90	Kane	2w	—
KeA—Kendallville silt loam, 0 to 2 percent slopes				
	100	Kendallville	1	—
KeB—Kendallville silt loam, 2 to 6 percent slopes				
	100	Kendallville	2e	—
KeC2—Kendallville silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Kendallville	3e	—
KeD2—Kendallville silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Kendallville	4e	—
Ko—Kokomo silty clay loam, 0 to 2 percent slopes				
	90	Kokomo	2w	—
Ln—Linwood muck				
	100	Linwood	2w	—
Lo—Linwood mucky silt loam, drained				
	80	Linwood	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Lp—Lippincott silty clay loam				
	100	Lippincott	2w	—
MbC—Miami bouldery silt loam, 2 to 12 percent slopes				
	95	Miami	3e	—
MIA—Miami silt loam, 0 to 2 percent slopes				
	95	Miami	1	—
MIB—Miami silt loam, 2 to 6 percent slopes				
	95	Miami	2e	—
MIB2—Miami silt loam, 2 to 6 percent slopes, moderately eroded				
	95	Miami	2e	—
MIC—Miami silt loam, 6 to 12 percent slopes				
	95	Miami	3e	—
MIC2—Miami silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Miami	3e	—
MID—Miami silt loam, 12 to 18 percent slopes				
	100	Miami	4e	—
MID2—Miami silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Miami	4e	—
MIE—Miami silt loam, 18 to 25 percent slopes				
	100	Miami	6e	—
MIE2—Miami silt loam, 18 to 25 percent slopes, moderately eroded				
	100	Miami	6e	—
MmC3—Miami soils, 6 to 12 percent slopes, severely eroded				
	95	Miami	4e	—
MmD3—Miami soils, 12 to 18 percent slopes, severely eroded				
	100	Miami	4e	—
MmE3—Miami soils, 18 to 25 percent slopes, severely eroded				
	100	Miami	6e	—
MnB—Miamian silt loam, 2 to 6 percent slopes				
	85	Miamian	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MnB2—Miamiian silt loam, 2 to 6 percent slopes, eroded				
	85	Miamiian, eroded	2e	—
MnC—Miamiian silt loam, 6 to 12 percent slopes				
	85	Miamiian	3e	—
MnC2—Miamiian silt loam, 6 to 12 percent slopes, moderately eroded				
	85	Miamiian	3e	—
MnD2—Miamiian silt loam, 12 to 18 percent slopes, moderately eroded				
	90	Miamiian	4e	—
MnE—Miamiian silt loam, 18 to 25 percent slopes				
	85	Miamiian	6e	—
MnE2—Miamiian silt loam, 18 to 25 percent slopes, moderately eroded				
	100	Miamiian	6e	—
MnI3A—Minster silty clay loam, till substratum, 0 to 1 percent slopes				
	85	Minster, till substratum	3w	—
MnY3A—Minster silty clay loam, gravelly substratum, 0 to 1 percent slopes				
	90	Minster, gravelly substratum	3w	—
MoF2—Miami and Lewisburg silt loams, 25 to 50 percent slopes, moderately eroded				
	50	Miami	7e	—
	50	Lewisburg	7e	—
MpE2—Miamiian silt loam, 18 to 30 percent slopes, eroded				
	85	Miamiian	6e	—
MrF2—Miami-Rodman complex, 25 to 50 percent slopes, moderately eroded				
	60	Miami	7e	—
	40	Rodman	7s	—
MsE2—Miami-Casco-Rodman complex, 18 to 25 percent slopes, moderately eroded				
	60	Miami	6e	—
	20	Rodman	7s	—
	20	Casco	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MuC3—Miamiian clay loam, shallow to dense till substratum, 6 to 12 percent slopes, severely eroded				
	90	Miamiian, severely eroded	4e	—
MuD3—Miamiian clay loam, 12 to 18 percent slopes, severely eroded				
	85	Miamiian	6e	—
NnA—Nineveh silt loam, 0 to 2 percent slopes				
	100	Nineveh	2s	—
OcA—Ockley silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Ockley	1	—
OcB—Ockley silt loam, 2 to 6 percent slopes				
	100	Ockley	2e	—
Pa—Patton silty clay loam				
	100	Patton	2w	—
PbB—Parr silt loam, 1 to 4 percent slopes				
	95	Parr	2e	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—
Pq—Pits, quarry				
	100	Pits, quarry	—	—
RgD2—Rodman gravelly loam, 12 to 18 percent slopes, moderately eroded				
	100	Rodman	4s	—
RgE—Rodman gravelly loam, 18 to 35 percent slopes				
	85	Rodman	7s	—
RgF2—Rodman gravelly loam, 18 to 50 percent slopes, moderately eroded				
	100	Rodman	7s	—
RhF—Rodman-Casco complex, 25 to 50 percent slopes				
	60	Rodman	7s	—
	40	Casco	7e	—
Rn—Ross silt loam				
	95	Ross	2w	—
Ro—Ross silty clay loam, rarely flooded				
	85	Ross	1	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RuA—Rush silt loam, 0 to 2 percent slopes				
	80	Rush	1	—
ScA—Savona silt loam, 0 to 2 percent slopes				
	85	Savona	2w	—
SgB—Shinrock silt loam, 2 to 6 percent slopes				
	95	Shinrock	2e	—
SgC—Shinrock silt loam, 6 to 12 percent slopes				
	95	Shinrock	3e	—
Sh—Shoals silt loam				
	95	Shoals	2w	—
Sm—Shoals silt loam, till subsoil variant				
	95	Shoals variant	2w	—
So—Sloan silt loam				
	100	Sloan	3w	—
Sp—Sloan silt loam, sandy substratum, occasionally flooded				
	85	Sloan	3w	—
Sv—Sloan silt loam, gravelly subsoil variant				
	100	Sloan variant	3w	—
SwC2—Strawn silty clay loam, 6 to 12 percent slopes, eroded				
	85	Strawn	3e	—
SwD2—Strawn silty clay loam, 12 to 18 percent slopes, eroded				
	90	Strawn	4e	—
Ts—Tremont silt loam, occasionally flooded				
	80	Tremont	2w	—
Ua—Udorthents				
	100	Udorthents	—	—
UnB—Uniontown silt loam, 2 to 6 percent slopes				
	95	Uniontown	2e	—
W—Water				
	100	Water	—	—
Wa—Wallkill silt loam				
	100	Wallkill	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Wb—Walkkill silt loam, occasionally flooded				
	80	Walkkill	3w	—
Wn—Warners silt loam				
	100	Warners	3w	—
WpA—Waupecan silt loam, 0 to 2 percent slopes				
	85	Waupecan	1	—
WrA—Warsaw silt loam, 0 to 2 percent slopes				
	100	Warsaw	2s	—
WrB—Warsaw silt loam, 2 to 6 percent slopes				
	100	Warsaw	2e	—
WsA—Wea silt loam, 0 to 3 percent slopes				
	100	Wea	1	—

### Data Source Information

Soil Survey Area: Champaign County, Ohio  
 Survey Area Data: Version 15, Sep 23, 2014