

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—Union 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	—
Ble1A1—Blount silt loam, end moraine, 0 to 2 percent slopes				
	85	Blount, end moraine	2w	—
Ble1B1—Blount silt loam, end moraine, 2 to 4 percent slopes				
	85	Blount, end moraine	2e	—
Blg1A1—Blount silt loam, ground moraine, 0 to 2 percent slopes				
	85	Blount, ground moraine	2w	—
Blg1B1—Blount silt loam, ground moraine, 2 to 4 percent slopes				
	85	Blount, ground moraine	2e	—
BoB2—Blount silt loam, 2 to 6 percent slopes, eroded				
	85	Blount	2e	—
Bs—Brookston silty clay loam, fine texture, 0 to 2 percent slopes				
	90	Brookston	2w	—
CeA—Celina silt loam, 0 to 2 percent slopes				
	95	Celina	1	—
CeB—Celina silt loam, 2 to 6 percent slopes				
	85	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	—
CsA—Crosby-Lewisburg silt loams, 0 to 2 percent slopes				
	55	Crosby	2w	—
	35	Lewisburg	2w	—

Land Capability Classification--Union County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CsB—Crosby-Lewisburg silt loams, 2 to 6 percent slopes				
	55	Crosby	2e	—
	35	Lewisburg	2e	—
Cu—Cut and fill land				
	100	Cut and fill land	—	—
Ee—Eel silt loam				
	95	Eel	2w	—
EmB—Eldean silt loam, 2 to 6 percent slopes				
	90	Eldean	2e	—
FoA—Fox silt loam, 0 to 2 percent slopes				
	99	Fox	2s	—
FoB—Fox silt loam, 2 to 6 percent slopes				
	100	Fox	2e	—
FoB2—Fox silt loam, 2 to 6 percent slopes, moderately eroded				
	100	Fox	2e	—
FoC2—Fox silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Fox	3e	—
FpC2—Fox-Miami silt loams, 6 to 12 percent slopes, moderately eroded				
	60	Fox	3e	—
	40	Miami	3e	—
Gn—Genesee silt loam				
	95	Genesee	2w	—
Gp—Gravel pits				
	100	Gravel pits	—	—
Gwd1C1—Glynwood silt loam, 6 to 12 percent slopes				
	85	Glynwood	3e	—
Gwd5C2—Glynwood clay loam, 6 to 12 percent slopes, eroded				
	85	Glynwood	4e	—
Gwe1B1—Glynwood silt loam, end moraine, 2 to 6 percent slopes				
	85	Glynwood, end moraine	2e	—

Land Capability Classification--Union County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Gwe1B2—Glynwood silt loam, end moraine, 2 to 6 percent slopes, eroded				
	85	Glynwood, end moraine	2e	—
Gwe5B2—Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded				
	85	Glynwood, end moraine	2e	—
Gwg1B1—Glynwood silt loam, ground moraine, 2 to 6 percent slopes				
	85	Glynwood, ground moraine	2e	—
Gwg1B2—Glynwood silt loam, ground moraine, 2 to 6 percent slopes, eroded				
	85	Glynwood, ground moraine	2e	—
Gwg1C1—Glynwood silt loam, ground moraine, 6 to 12 percent slopes				
	85	Glynwood	3e	—
Gwg5C2—Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded				
	85	Glynwood	3e	—
HeA—Henshaw silt loam, 0 to 2 percent slopes				
	85	Henshaw	2w	—
Ho—Homer silt loam				
	95	Homer	2w	—
Ka—Kane silt loam				
	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	—
Ko—Kokomo silty clay loam, 0 to 2 percent slopes				
	90	Kokomo	2w	—
LbB—Lewisburg-Celina silt loams, 2 to 6 percent slopes				
	50	Lewisburg	2e	—
	30	Celina	2e	—
Lc—Lippincott silty clay loam				
	95	Lippincott	2w	—

Land Capability Classification--Union County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LeB—Lewisburg-Crosby complex, 2 to 6 percent slopes				
	45	Lewisburg	2e	—
	40	Crosby	2e	—
LsA—Lobdell, channery substratum-Sloan, till substratum complex, 0 to 2 percent slopes, occasionally flooded				
	60	Lobdell	2w	—
	35	Sloan	3w	—
LyD2—Lybrand silt loam, 12 to 18 percent slopes, eroded				
	90	Lybrand	4e	—
MIB—Miamian silt loam, 2 to 6 percent slopes				
	95	Miamian	2e	—
MIC2—Miamian silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Miamian	3e	—
MID2—Miamian silt loam, 12 to 18 percent slopes, moderately eroded				
	95	Miamian	4e	—
MIF2—Miamian silt loam, 18 to 35 percent slopes, moderately eroded				
	100	Miamian	6e	—
Mm—Millgrove silty clay loam, 0 to 2 percent slopes, rarely flooded				
	95	Millgrove	2w	—
Mnl3A—Minster silty clay loam, till substratum, 0 to 1 percent slopes				
	85	Minster, till substratum	3w	—
Mns3A—Minster silty clay loam, 0 to 1 percent slopes				
	90	Minster	3w	—
MrD2—Morley silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Morley	4e	—
MrE2—Morley silt loam, 18 to 25 percent slopes, moderately eroded				
	95	Morley	6e	—

Land Capability Classification—Union County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MrF2—Morley silt loam, 25 to 50 percent slopes, moderately eroded				
	95	Morley	7e	—
Mu—Muskego muck				
	100	Muskego	3w	—
No—Nolin silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Nolin	2w	—
NpA—Nappanee silt loam, 0 to 2 percent slopes				
	95	Nappanee	3w	—
NpB—Nappanee silt loam, 2 to 6 percent slopes				
	95	Nappanee	3e	—
OdA—Odell silt loam, 0 to 2 percent slopes				
	95	Odell	2w	—
OeA—Odell-Lewisburg complex, 0 to 2 percent slopes				
	60	Odell	2w	—
	30	Lewisburg	2w	—
Pa—Paulding silty clay				
	95	Paulding	3w	—
Pk—Pewamo silty clay loam, 0 to 1 percent slopes				
	85	Pewamo	2w	—
Pm—Pewamo silty clay loam				
	90	Pewamo	2w	—
Qu—Quarries				
	100	Quarries	—	—
Ro—Ross silt loam				
	85	Ross	2w	—
RpA—Rossburg silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Rossburg	2w	—
RrA—Rossburg-Sloan complex, 0 to 2 percent slopes, occasionally flooded				
	50	Rossburg	2w	—
	40	Sloan	3w	—

Land Capability Classification--Union County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Sac3AF--Saranac silty clay loam, 0 to 1 percent slopes, frequently flooded				
	90	Saranac, brief duration	3w	—
ScB--St. Clair silt loam, 2 to 6 percent slopes				
	95	St. clair	3e	—
ScB2--St. Clair silt loam, 2 to 6 percent slopes, moderately eroded				
	95	St. clair	3e	—
ScC--St. Clair silt loam, 6 to 12 percent slopes				
	95	St. clair	4e	—
ScC2--St. Clair silt loam, 6 to 12 percent slopes, moderately eroded				
	90	St. clair	4e	—
SdA--Scioto silt loam, 0 to 2 percent slopes				
	90	Scioto	2s	—
SdB--Scioto silt loam, 2 to 6 percent slopes				
	90	Scioto	2e	—
Sh--Shoals silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Shoals	2w	—
SIA--Sleeth silt loam, 0 to 2 percent slopes				
	95	Sleeth	2w	—
Sn--Sloan silt loam				
	100	Sloan	3w	—
So--Sloan silty clay loam				
	95	Sloan	3w	—
SpA--Sloan silty clay loam, till substratum, 0 to 2 percent slopes, occasionally flooded				
	85	Sloan	3w	—
UdB--Udorthents, clayey-Urban land complex, undulating				
	45	Udorthents	—	—
	40	Urban land	—	—
Ut--Udorthents-Urban land complex, gently rolling				
	50	Udorthents	—	—
	40	Urban land	—	—

Land Capability Classification--Union County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
W—Water				
	100	Water	—	—
WaB—Warsaw silt loam, 1 to 4 percent slopes				
	100	Warsaw	2e	—
Wc—Westland silty clay loam				
	95	Westland	2w	—
We—Wetzel silty clay loam				
	95	Wetzel	2w	—

Data Source Information

Soil Survey Area: Union County, Ohio
 Survey Area Data: Version 13, Sep 19, 2014