

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—Shelby County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Af—Algiers silt loam				
	85	Algiers	2w	—
Ag—Algiers silt loam				
	90	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	—
Bs—Brookston silty clay loam, fine texture, 0 to 2 percent slopes				
	90	Brookston	2w	—
Ca—Carlisle muck				
	90	Carlisle	3w	—
CdD2—Casco-Eldean complex, 12 to 18 percent slopes, moderately eroded				
	60	Casco	6e	—
	40	Eldean	4e	—
CeA—Celina silt loam, 0 to 2 percent slopes				
	90	Celina	1	—
CeB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—
CnA—Crane silt loam, 0 to 2 percent slopes				
	85	Crane	2w	—

Land Capability Classification--Shelby County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CrA—Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	90	Crosby	2w	—
CrB—Crosby silt loam, 2 to 6 percent slopes				
	85	Crosby	2e	—
DmA—Digby loam, 0 to 2 percent slopes				
	85	Digby	2w	—
Ee—Eel silt loam, occasionally flooded				
	90	Eel	2w	—
Ef—Eel Variant silt loam, occasionally flooded				
	85	Eel variant	2w	—
EIA—Eldean loam, 0 to 2 percent slopes				
	90	Eldean	2s	—
EIB—Eldean loam, 2 to 6 percent slopes				
	90	Eldean	2e	—
EIC—Eldean loam, 6 to 12 percent slopes				
	85	Eldean	3e	—
EoC2—Eldean-Casco complex, 6 to 15 percent slopes, eroded				
	50	Eldean	3e	—
	35	Casco	4e	—
EsB2—Eldean-Morley complex, 2 to 6 percent slopes, eroded				
	50	Eldean	2e	—
	35	Morley	2e	—
EsC2—Eldean-Morley complex, 6 to 15 percent slopes, eroded				
	40	Eldean	3e	—
	30	Morley	4e	—
FoC2—Fox-Miami silt loams, 6 to 12 percent slopes, moderately eroded				
	60	Fox	3e	—
	40	Miami	3e	—
Ge—Genesee silt loam, occasionally flooded				
	90	Genesee	2w	—
GID2—Glynwood silt loam, 12 to 18 percent slopes, eroded				
	85	Glynwood	4e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GmD3—Glynwood clay loam, 12 to 18 percent slopes, severely eroded				
	85	Glynwood	6e	—
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	—
Gwe1B2—Glynwood silt 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	—
Gwg5C2—Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded				
	85	Glynwood	3e	—
Gwg5C3—Glynwood clay loam, 6 to 12 percent slopes, severely eroded				
	85	Glynwood	4e	—
GwM5C3—Glynwood-Mississinewa clay loams, 6 to 12 percent slopes, severely eroded				
	70	Glynwood	4e	—
	15	Mississinewa	4e	—
Md—Medway silt loam, occasionally flooded				
	90	Medway	2w	—
MhB—Miamian silt loam, 2 to 6 percent slopes				
	85	Miamian	2e	—
MhC2—Miamian silt loam, 6 to 12 percent slopes, eroded				
	85	Miamian	3e	—
MhD2—Miamian silt loam, 12 to 18 percent slopes, eroded				
	85	Miamian	4e	—

Land Capability Classification--Shelby County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MhE—Miamiian silt loam, 18 to 25 percent slopes				
	85	Miamian	6e	—
MhE2—Miamiian silt loam, 18 to 25 percent slopes, moderately eroded				
	100	Miamian	6e	—
MhF—Miamiian silt loam, 25 to 50 percent slopes				
	90	Miamian	7e	—
MIC3—Miamiian clay loam, shallow to dense till substratum, 6 to 12 percent slopes, severely eroded				
	90	Miamian, severely eroded	4e	—
Mm—Millgrove clay loam				
	85	Millgrove	2w	—
MnF—Miamiian and Hennepin silt loams, 25 to 50 percent slopes				
	45	Miamian	7e	—
	45	Hennepin	7e	—
MnI3A—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	—
Mny3A—Minster silty clay loam, gravelly substratum, 0 to 1 percent slopes				
	90	Minster, gravelly substratum	3w	—
MoB—Milton silt loam, 2 to 6 percent slopes				
	90	Milton	2e	—
MxE—Morley silt loam, 18 to 25 percent slopes				
	90	Morley	6e	—
MxF—Morley silt loam, 25 to 50 percent slopes				
	90	Morley	7e	—
ObA—Ockley silt loam, 0 to 2 percent slopes				
	95	Ockley	1	—
ObB—Ockley silt loam, 2 to 6 percent slopes				
	95	Ockley	2e	—

Land Capability Classification--Shelby County, Ohio				
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			Nonirrigated	Irrigated
OcA—Ockley silt loam, 0 to 3 percent slopes				
	90	Ockley	1	—
OdA—Odell silt loam, 0 to 2 percent slopes				
	85	Odell	2w	—
OdB—Odell silt loam, 2 to 6 percent slopes				
	85	Odell	2e	—
Pa—Patton silty clay loam				
	90	Patton	2w	—
Pd—Pewamo silt loam				
	85	Pewamo	2w	—
Pe—Pewamo silty clay loam				
	85	Pewamo	2w	—
Pg—Pits, gravel				
	100	Pits	—	—
Sho1AO—Shoals silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Shoals	2w	—
St—Stonelick sandy loam, occasionally flooded				
	90	Stonelick	2w	—
Ud—Udorthents				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
Wb—Walkkill silty clay loam				
	90	Walkkill	3w	—
WdA—Warsaw Variant silt loam, 0 to 2 percent slopes				
	85	Warsaw variant	2s	—

Data Source Information

Soil Survey Area: Shelby County, Ohio
 Survey Area Data: Version 14, Sep 19, 2014