

## 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—Greene County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ag—Algiers silt loam				
	90	Algiers	2w	—
BbB—Birkbeck silt loam, 1 to 4 percent slopes				
	90	Birkbeck	2e	—
BcB—Birkbeck silt loam, 2 to 6 percent slopes				
	75	Birkbeck	2e	—
Bs—Brookston silty clay loam, fine texture, 0 to 2 percent slopes				
	90	Brookston	2w	—
Bt—Brookston-Urban land complex				
	50	Brookston	—	—
	20	Urban land	—	—
CaE2—Casco silt loam, 18 to 50 percent slopes, eroded				
	85	Casco	7e	—
CbD2—Casco gravelly loam, 12 to 20 percent slopes, eroded				
	80	Casco	6e	—
CcD2—Casco-Eldean loams, 12 to 18 percent slopes, moderately eroded				
	50	Casco	6e	—
	35	Eldean	4e	—
CdE2—Casco-Rodman loams, 18 to 50 percent slopes, moderately eroded				
	50	Casco	7e	—
	35	Rodman	7s	—
CeA—Celina silt loam, 0 to 2 percent slopes				
	95	Celina	1	—
CeB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—

Land Capability Classification--Greene County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CfB—Celina-Losantville silt loams, 2 to 6 percent slopes				
	50	Celina	2e	—
	30	Losantville	2e	—
ChB—Celina-Strawn complex, 2 to 6 percent slopes				
	50	Celina	2e	—
	35	Strawn	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	—
CsB—Crosby-Lewisburg silt loams, 2 to 6 percent slopes				
	55	Crosby	2e	—
	35	Lewisburg	2e	—
CtA—Crosby-Celina silt loams, 0 to 2 percent slopes				
	70	Crosby	2w	—
	15	Celina	1	—
CtB—Crosby-Celina silt loams, 2 to 4 percent slopes				
	60	Crosby	2e	—
	30	Celina	2e	—
Du—Dumps				
	100	Dumps	—	—
EdB—Edenton silt loam, 2 to 6 percent slopes				
	90	Edenton	2e	—
EdC2—Edenton silt loam, 6 to 12 percent slopes, moderately eroded				
	85	Edenton	3e	—

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			Nonirrigated	Irrigated
EdD2—Edenton silt loam, 12 to 18 percent slopes, moderately eroded				
	90	Edenton	4e	—
Ee—Eel loam				
	90	Eel	2w	—
EmA—Eldean silt loam, 0 to 2 percent slopes				
	90	Eldean	2s	—
EmB—Eldean silt loam, 2 to 6 percent slopes				
	90	Eldean	2e	—
EmB2—Eldean silt loam, 2 to 6 percent slopes, moderately eroded				
	95	Eldean	2e	—
EmC2—Eldean silt loam, 6 to 12 percent slopes, moderately eroded				
	90	Eldean	3e	—
EnC3—Eldean clay loam, 6 to 12 percent slopes, severely eroded				
	90	Eldean	4e	—
EoC2—Eldean-Miamian complex, 6 to 12 percent slopes, eroded				
	50	Eldean	3e	—
	35	Miamian	3e	—
EoD2—Eldean-Miamian complex, 12 to 18 percent slopes, eroded				
	45	Eldean	4e	—
	40	Miamian	4e	—
EpC—Eldean-Urban land complex, rolling				
	50	Eldean	—	—
	30	Urban land	—	—
FaF—Fairmount silty clay loam, moderately deep variant, 25 to 50 percent slopes				
	80	Fairmount variant	7e	—
FnA—Fincastle silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Fincastle	2w	—
Gn—Genesee loam				
	80	Genesee	2w	—

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			Nonirrigated	Irrigated
Ko—Kokomo silty clay loam, 0 to 2 percent slopes				
	90	Kokomo	2w	—
Lh—Linwood mucky silt loam, drained				
	80	Linwood	2w	—
Ln—Linwood muck				
	85	Linwood	2w	—
LuF2—Lumberton silt loam, 25 to 50 percent slopes, eroded				
	80	Lumberton	7e	—
MhA—Miamian silt loam, 0 to 2 percent slopes				
	90	Miamian	1	—
MhB—Miamian silt loam, 2 to 6 percent slopes				
	85	Miamian	2e	—
MhB2—Miamian silt loam, 2 to 6 percent slopes, eroded				
	85	Miamian, eroded	2e	—
MhC2—Miamian silt loam, 6 to 12 percent slopes, moderately eroded				
	90	Miamian	3e	—
MhD2—Miamian silt loam, 12 to 18 percent slopes, moderately eroded				
	90	Miamian	4e	—
MIB3—Miamian clay loam, 2 to 6 percent slopes, severely eroded				
	95	Miamian	3e	—
MIC3—Miamian clay loam, 6 to 12 percent slopes, severely eroded				
	90	Miamian, severely eroded	4e	—
MID3—Miamian clay loam, 12 to 18 percent slopes, severely eroded				
	90	Miamian	6e	—
MmD2—Miamian-Casco complex, 12 to 18 percent slopes, moderately eroded				
	50	Miamian	4e	—
	40	Casco	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MmE2—Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded				
	50	Miamian	7e	—
	35	Casco	7e	—
MoB2—Miamian-Eldean silt loams, 2 to 6 percent slopes, moderately eroded				
	40	Miamian	2e	—
	30	Eldean	2e	—
MoC2—Miamian-Eldean silt loams, 6 to 12 percent slopes, moderately eroded				
	40	Miamian	3e	—
	30	Eldean	3e	—
MpE—Miamian and Hennepin soils, 18 to 25 percent slopes				
	50	Miamian	6e	—
	45	Hennepin	6e	—
MpF—Miamian and Hennepin soils, 25 to 50 percent slopes				
	50	Miamian	7e	—
	45	Hennepin	7e	—
MqE2—Miamian-Thrifton complex, 18 to 25 percent slopes, eroded				
	70	Miamian	6e	—
	20	Thrifton	6e	—
MqF2—Miamian-Thrifton complex, 25 to 50 percent slopes, eroded				
	70	Miamian	7e	—
	25	Thrifton	7e	—
MrB—Miamian-Urban land complex, undulating				
	40	Miamian	—	—
	15	Urban land	—	—
MrC—Miamian-Urban land complex, rolling				
	50	Miamian	—	—
	15	Urban land	—	—
Ms—Millsdale silty clay loam				
	85	Millsdale	3w	—
MtA—Milton silt loam, 0 to 2 percent slopes				
	95	Milton	2s	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MtB—Milton silt loam, 2 to 6 percent slopes				
	90	Milton	2e	—
MtC2—Milton silt loam, 6 to 12 percent slopes, moderately eroded				
	90	Milton	3e	—
MUF—Milton soils, channery variant, 25 to 50 percent slopes				
	90	Milton variant	7e	—
OcA—Ockley silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Ockley	1	—
OcB—Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes				
	85	Ockley	2e	—
OcB2—Ockley silt loam, 2 to 6 percent slopes, moderately eroded				
	95	Ockley	2e	—
OdB—Ockley-Urban land complex, undulating				
	45	Ockley	—	—
	25	Urban land	—	—
OeB—Odell silt loam, 2 to 6 percent slopes				
	90	Odell	2e	—
Pa—Patton silty clay loam				
	90	Patton	2w	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—
Pu—Pits, quarry				
	100	Pits, quarry	—	—
Ra—Ragsdale silty clay loam				
	90	Ragsdale	2w	—
RbA—Randolph silt loam, 0 to 2 percent slopes				
	85	Randolph	3w	—
RdA—Raub silt loam, 0 to 2 percent slopes				
	90	Raub	2w	—
RdB—Raub silt loam, 2 to 6 percent slopes				
	90	Raub	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
ReA—Reesville silt loam, 0 to 2 percent slopes				
	90	Reesville	2w	—
RhB—Ritchey silt loam, 2 to 6 percent slopes				
	90	Ritchey	3e	—
RhC—Ritchey silt loam, 6 to 12 percent slopes				
	85	Ritchey	4e	—
RhD—Ritchey silt loam, 12 to 18 percent slopes				
	85	Ritchey	7e	—
RhE2—Ritchey silt loam, 18 to 25 percent slopes, moderately eroded				
	90	Ritchey	7e	—
RkE—Rodman gravelly loam, 18 to 35 percent slopes				
	85	Rodman	7s	—
RpA—Ross loam, 0 to 1 percent slopes, occasionally flooded				
	95	Ross	2w	—
RqA—Ross silt loam, 0 to 1 percent slopes, frequently flooded				
	95	Ross	2w	—
Rs—Ross loam				
	85	Ross	2w	—
RtA—Rush silt loam, 0 to 2 percent slopes				
	85	Rush	1	—
RtB—Rush silt loam, 2 to 6 percent slopes				
	90	Rush	2e	—
RuA—Russell silt loam, 0 to 2 percent slopes				
	95	Russell	1	—
RvB—Russell-Miamian silt loams, 2 to 6 percent slopes				
	55	Russell	2e	—
	30	Miamian	2e	—
RvB2—Russell-Miamian silt loams, 2 to 6 percent slopes, moderately eroded				
	50	Russell	2e	—
	40	Miamian	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RwB2—Russell-Xenia silt loams, 2 to 6 percent slopes, eroded				
	60	Russell	2e	—
	20	Xenia	2e	—
SkA—Sligo silt loam, 0 to 1 percent slopes, occasionally flooded				
	90	Sligo	2w	—
SIA—Sleeth silt loam, 0 to 2 percent slopes				
	85	Sleeth	2w	—
Sn—Sloan silt loam, sandy substratum, occasionally flooded				
	90	Sloan	3w	—
So—Sloan silty clay loam				
	80	Sloan	3w	—
Sp—Sloan-Fill land complex				
	50	Fill land	—	—
	50	Sloan	3w	—
Sr—Sloan-Urban land complex				
	65	Urban land	—	—
	35	Sloan	—	—
SuA—Strawn-Crosby complex, 0 to 2 percent slopes				
	55	Strawn	2w	—
	30	Crosby	2w	—
ThA—Thackery silt loam, 0 to 2 percent slopes				
	80	Thackery	1	—
ThB—Thackery silt loam, 2 to 6 percent slopes				
	90	Thackery	2e	—
Ts—Tremont silt loam, occasionally flooded				
	80	Tremont	2w	—
TtA—Treaty silty clay loam, 0 to 1 percent slopes				
	90	Treaty	2w	—
Ud—Udorthents				
	100	Udorthents	—	—
Ur—Urban land				
	100	Urban land	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
W—Water				
	100	Water	—	—
WaA—Warsaw loam, 0 to 2 percent slopes				
	90	Warsaw	2s	—
WbA—Warsaw-Fill land complex, nearly level				
	40	Warsaw	2s	—
	40	Fill land	—	—
WcA—Warsaw-Urban land complex, nearly level				
	40	Warsaw	—	—
	35	Urban land	—	—
WeB—Wea silt loam, 1 to 3 percent slopes				
	85	Wea	2e	—
WpC3—Wapahani-Miamian clay loams, 6 to 12 percent slopes, severely eroded				
	70	Wapahani	4e	—
	20	Miamian	4e	—
WpD3—Wapahani-Miamian clay loams, 12 to 18 percent slopes, severely eroded				
	60	Wapahani	6e	—
	30	Miamian	4e	—
Ws—Westland silty clay loam				
	80	Westland	2w	—
Wt—Westland-Urban land complex				
	40	Westland	—	—
	35	Urban land	—	—
XeA—Xenia silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Xenia	1	—
XeB—Xenia silt loam, 2 to 6 percent slopes				
	75	Xenia	2e	—

## Data Source Information

Soil Survey Area: Greene County, Ohio  
 Survey Area Data: Version 11, Sep 18, 2014