

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—Darke County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ag—Algiers silt loam, occasionally flooded				
	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	—
Br—Brookston silty clay loam, fine texture, 0 to 2 percent slopes				
	90	Brookston	2w	—
Ca—Carlisle muck				
	90	Carlisle	3w	—
CeA—Celina silt loam, 0 to 2 percent slopes				
	90	Celina	1	—
CeB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—
CeB2—Celina silt loam, 2 to 6 percent slopes, eroded				
	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	—

Land Capability Classification--Darke County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CtA—Crosby-Celina silt loams, 0 to 2 percent slopes				
	60	Crosby	2w	—
	30	Celina	1	—
CtB—Crosby-Celina silt loams, 2 to 4 percent slopes				
	50	Crosby	2e	—
	40	Celina	2e	—
CvA—Crosby-Lewisburg silt loams, 0 to 2 percent slopes				
	60	Crosby	2w	—
	30	Lewisburg	2s	—
DeA—Del Rey silt loam, 0 to 3 percent slopes				
	85	Del rey	2w	—
Ed—Edwards muck				
	90	Edwards	4w	—
Ee—Eel silt loam, occasionally flooded				
	90	Eel	2w	—
EfA—Eel silt loam, gravelly substratum, 0 to 1 percent slopes, occasionally flooded				
	85	Eel	2w	—
EnA—Eldean loam, 0 to 2 percent slopes				
	90	Eldean	2s	—
EnB—Eldean loam, 2 to 6 percent slopes				
	90	Eldean	2e	—
ErC2—Eldean-Miamian complex, 6 to 12 percent slopes, eroded				
	40	Eldean	3e	—
	35	Miamian	3e	—
ErD2—Eldean-Miamian complex, 12 to 18 percent slopes, eroded				
	40	Eldean	4e	—
	35	Miamian	4e	—
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	—

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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	—
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	—
GyD3—Glynwood clay loam, 12 to 18 percent slopes, severely eroded				
	85	Glynwood	6e	—
KeD2—Kendallville-Eldean silt loams, 12 to 18 percent slopes, eroded				
	50	Kendallville	4e	—
	30	Eldean	4e	—
KoA—Kokomo silty clay loam, 0 to 1 percent slopes				
	90	Kokomo	2w	—
LeB—Lewisburg silt loam, 2 to 6 percent slopes				
	85	Lewisburg	2e	—
LfB—Lewisburg-Celina silt loams, 2 to 6 percent slopes				
	50	Lewisburg	2e	—
	40	Celina	2e	—
Ln—Linwood muck				
	90	Linwood	2w	—
Lp—Lippincott silty clay loam				
	85	Lippincott	2w	—

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			Nonirrigated	Irrigated
LrA—Lippincott silty clay loam, 0 to 2 percent slopes				
	80	Lippincott	2w	—
Md—Medway silt loam, occasionally flooded				
	95	Medway	2w	—
MfE2—Miami-Kendallville silt loams, 18 to 25 percent slopes, eroded				
	55	Miami	6e	—
	40	Kendallville	6e	—
MhC2—Miami loam, 6 to 12 percent slopes, eroded				
	95	Miami	3e	—
MkB—Miamian-Celina silt loams, 2 to 6 percent slopes				
	60	Miamian	2e	—
	30	Celina	2e	—
MkB2—Miamian-Celina silt loams, 2 to 6 percent slopes, eroded				
	60	Miamian	2e	—
	30	Celina	2e	—
MmA—Miamian silt loam, 0 to 2 percent slopes				
	90	Miamian	1	—
MmB—Miamian silt loam, 2 to 6 percent slopes				
	85	Miamian	2e	—
MmC2—Miamian silt loam, 6 to 12 percent slopes, eroded				
	85	Miamian	3e	—
MmD2—Miamian silt loam, 12 to 18 percent slopes, eroded				
	85	Miamian	4e	—
MmE—Miamian silt loam, 18 to 25 percent slopes				
	85	Miamian	6e	—
MnC3—Miamian clay loam, shallow to dense till substratum, 6 to 12 percent slopes, severely eroded				
	90	Miamian, severely eroded	4e	—
MnD3—Miamian clay loam, 12 to 18 percent slopes, severely eroded				
	90	Miamian	6e	—

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			Nonirrigated	Irrigated
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	—
MpC3—Miami-Losantville clay loams, 6 to 12 percent slopes, severely eroded				
	60	Miamian	4e	—
	30	Losantville	4e	—
MpD3—Miami-Losantville clay loams, 12 to 18 percent slopes, severely eroded				
	60	Miamian	6e	—
	30	Losantville	6e	—
MrE2—Miami-Hennepin silt loams, 18 to 25 percent slopes, eroded				
	70	Miamian	6e	—
	30	Hennepin	6e	—
MsA—Milford silty clay loam, gravelly substratum, 0 to 2 percent slopes				
	100	Milford	2w	—
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	—
OdA—Odell silt loam, 0 to 3 percent slopes				
	85	Odell	2w	—
Pa—Patton silty clay loam				
	90	Patton	2w	—
Pe—Pewamo silty clay loam				
	95	Pewamo	2w	—
PyA—Pyrmont silt loam, 0 to 3 percent slopes				
	90	Pyrmont	2w	—
RaA—Rainsville silt loam, 0 to 2 percent slopes				
	85	Rainsville	1	—
RaB—Rainsville silt loam, 2 to 6 percent slopes				
	85	Rainsville	2e	—

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			Nonirrigated	Irrigated
Sa—Saranac silty clay, frequently flooded				
	90	Saranac	3w	—
SeA—Savona silt loam, 0 to 2 percent slopes				
	85	Savona	2w	—
Sh—Shoals silt loam, occasionally flooded				
	85	Shoals	2w	—
SnA—Sloan silt loam, sandy substratum, 0 to 1 percent slopes, frequently flooded				
	85	Sloan	3w	—
Tr—Treaty silty clay loam				
	85	Treaty	2w	—
Ud—Udorthents, loamy				
	85	Udorthents	—	—
W—Water				
	100	Water	—	—
Wb—Walkkill silt loam				
	90	Walkkill	3w	—
WeA—Wea silt loam, 0 to 2 percent slopes				
	90	Wea	1	—
WnA—Westland silt loam, 0 to 2 percent slopes				
	85	Westland	2w	—
Ws—Westland silty clay loam				
	85	Westland	2w	—

Data Source Information

Soil Survey Area: Darke County, Ohio
 Survey Area Data: Version 14, Sep 18, 2014