

## 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—Miami County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ag—Algiers silt loam				
	85	Algiers	2w	—
BIB2—Blount silt loam, 2 to 6 percent slopes, eroded				
	85	Blount	2e	—
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	—
CcD2—Casco gravelly loam, 12 to 20 percent slopes, eroded				
	80	Casco	6e	—
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, moderately eroded				
	95	Celina	2e	—
CoA—Corwin silt loam, 0 to 2 percent slopes				
	94	Corwin	1	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CoB—Corwin silt loam, 2 to 6 percent slopes				
	92	Corwin	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	—
Ed—Edwards muck				
	90	Edwards	6w	—
Ee—Eel silt loam				
	95	Eel	2w	—
EIA—Eldean loam, 0 to 2 percent slopes				
	95	Eldean	2s	—
EIB—Eldean loam, 2 to 6 percent slopes				
	97	Eldean	2e	—
EIB2—Eldean loam, 2 to 6 percent slopes, moderately eroded				
	95	Eldean	2e	—
EmA—Eldean silt loam, 0 to 2 percent slopes				
	90	Eldean	2e	—
EmB—Eldean silt loam, 2 to 6 percent slopes				
	100	Eldean	2e	—
EmB2—Eldean silt loam, 2 to 6 percent slopes, eroded				
	75	Eldean	2e	—
EoC2—Eldean-Casco gravelly loams, 6 to 12 percent slopes, moderately eroded				
	50	Eldean	4e	—
	35	Casco	4e	—
EoD2—Eldean-Casco gravelly loams, 12 to 18 percent slopes, moderately eroded				
	50	Eldean	4e	—
	35	Casco	6e	—
EpD3—Eldean-Casco complex, 6 to 18 percent slopes, severely eroded				
	40	Casco	6e	—
	40	Eldean	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EqC2—Eldean-Casco complex, 6 to 12 percent slopes, eroded				
	50	Eldean	3e	—
	30	Casco	4e	—
ErB—Eldean-Miamian complex, 2 to 6 percent slopes				
	50	Eldean	2e	—
	35	Miamian	2e	—
ErC—Eldean-Miamian complex, 6 to 12 percent slopes				
	50	Eldean	3e	—
	35	Miamian	3e	—
Gn—Genesee silt loam				
	95	Genesee	2w	—
GwD2—Glynwood silt loam, 12 to 18 percent slopes, moderately eroded				
	90	Glynwood	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	—
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	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
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				
	95	Glynwood	6e	—
HeE2—Hennepin and Miamian silt loams, 18 to 25 percent slopes, moderately eroded				
	60	Hennepin	6e	—
	40	Miamian	6e	—
HeF2—Hennepin and Miamian silt loams, 25 to 50 percent slopes, moderately eroded				
	60	Hennepin	7e	—
	38	Miamian	7e	—
Ko—Kokomo silty clay loam, 0 to 2 percent slopes				
	90	Kokomo	2w	—
Ln—Linwood muck				
	85	Linwood	2w	—
LrE2—Lorenzo-Rodman gravelly loams, 18 to 50 percent slopes, moderately eroded				
	50	Lorenzo	7s	—
	35	Rodman	7s	—
MaB—Martinsville and Ockley loams, till substratum, 2 to 6 percent slopes				
	45	Martinsville	2e	—
	45	Ockley	2e	—
Md—Medway silt loam				
	90	Medway	2w	—
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	—

Land Capability Classification--Miami County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MhC2—Miamiian silt loam, 6 to 12 percent slopes, moderately eroded				
	92	Miamian	3e	—
MhD2—Miamiian silt loam, 12 to 18 percent slopes, moderately eroded				
	95	Miamian	4e	—
MkA—Miamiian silt loam, limestone substratum, 0 to 2 percent slopes				
	95	Miamian	1	—
MkB—Miamiian silt loam, limestone substratum, 2 to 6 percent slopes				
	95	Miamian	2e	—
MkB2—Miamiian silt loam, limestone substratum, 2 to 6 percent slopes, moderately eroded				
	93	Miamian	2e	—
MkC2—Miamiian silt loam, limestone substratum, 6 to 12 percent slopes, moderately eroded				
	93	Miamian	3e	—
MIC3—Miamiian clay loam, shallow to dense till substratum, 6 to 12 percent slopes, severely eroded				
	90	Miamian, severely eroded	4e	—
MID3—Miamiian clay loam, 12 to 18 percent slopes, severely eroded				
	95	Miamian	6e	—
MmE—Miamiian and Hennepin silt loams, 18 to 25 percent slopes				
	45	Miamian	6e	—
	45	Hennepin	6e	—
MmF—Miamiian and Hennepin silt loams, 25 to 50 percent slopes				
	45	Miamian	7e	—
	45	Hennepin	7e	—
MnA—Millsdale silt loam, 0 to 2 percent slopes				
	96	Millsdale	3w	—
MnB—Millsdale silt loam, 2 to 6 percent slopes				
	95	Millsdale	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Mni3A—Minster silty clay loam, till substratum, 0 to 1 percent slopes				
	85	Minster, till substratum	3w	—
MoA—Millsdale silty clay loam, 0 to 2 percent slopes				
	95	Millsdale	3w	—
MoB—Millsdale silty clay loam, 2 to 6 percent slopes				
	100	Millsdale	3w	—
MpA—Milton silt loam, 0 to 2 percent slopes				
	90	Milton	2s	—
MpB—Milton silt loam, 2 to 6 percent slopes				
	95	Milton	2e	—
MpB2—Milton silt loam, 2 to 6 percent slopes, moderately eroded				
	90	Milton	2e	—
MpC2—Milton silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Milton	3e	—
MpD2—Milton silt loam, 12 to 18 percent slopes, moderately eroded				
	95	Milton	4e	—
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 2 percent slopes				
	95	Odell	2w	—
OdB—Odell silt loam, 2 to 6 percent slopes				
	95	Odell	2w	—
Pe—Pewamo silty clay loam				
	90	Pewamo	2w	—
Pg—Pits, gravel				
	100	Gravel pits	—	—
Pq—Pits, quarry				
	100	Quarries	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RdA—Randolph silt loam, 0 to 2 percent slopes				
	90	Randolph	3w	—
RdB—Randolph silt loam, 2 to 6 percent slopes				
	85	Randolph	3w	—
RgE—Rodman gravelly loam, 18 to 35 percent slopes				
	85	Rodman	7s	—
RhB—Ritchey silt loam, 2 to 6 percent slopes				
	95	Ritchey	3e	—
RhC—Ritchey silt loam, 6 to 18 percent slopes				
	97	Ritchey	6e	—
RhE—Ritchey silt loam, 18 to 50 percent slopes				
	92	Ritchey	7e	—
Rs—Ross silt loam				
	98	Ross	2w	—
Rt—Ross silt loam, shallow variant				
	100	Ross variant	3s	—
Sh—Shoals silt loam				
	90	Shoals	2w	—
Sk—Shoals silt loam, moderately shallow variant				
	90	Shoals variant	5w	—
SIA—Sleeth silt loam, 0 to 2 percent slopes				
	95	Sleeth	2w	—
St—Stonelick loam				
	96	Stonelick	2s	—
Ts—Tremont silt loam, occasionally flooded				
	80	Tremont	2w	—
Ud—Udorthents				
	100	Udorthents	—	—
Uf—Udorthents, Sanitary landfill				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
Wa—Walkkill silt loam				
	90	Walkkill	2w	—

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			Nonirrigated	Irrigated
WdA—Warsaw silt loam, 0 to 2 percent slopes				
	95	Warsaw	2s	—
WeA—Wea silt loam, 0 to 2 percent slopes				
	90	Wea	2s	—
Wt—Westland silty clay loam				
	85	Westland	2w	—

### Data Source Information

Soil Survey Area: Miami County, Ohio  
 Survey Area Data: Version 12, Sep 19, 2014