

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—Delaware County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AmD2—Amanda silt loam, 12 to 18 percent slopes, eroded				
	90	Amanda	4e	—
AmE—Amanda silt loam, 18 to 25 percent slopes				
	90	Amanda	6e	—
AmF—Amanda silt loam, 25 to 50 percent slopes				
	90	Amanda	7e	—
BeA—Bennington silt loam, 0 to 2 percent slopes				
	90	Bennington	2w	—
BeB—Bennington silt loam, 2 to 4 percent slopes				
	95	Bennington	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	—
CaB—Cardington silt loam, 2 to 6 percent slopes				
	95	Cardington	2e	—
CaC2—Cardington silt loam, 6 to 12 percent slopes, eroded				
	100	Cardington	3e	—

Land Capability Classification--Delaware County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CeB—Centerburg silt loam, 2 to 6 percent slopes				
	95	Centerburg	2e	—
CeC2—Centerburg silt loam, 6 to 12 percent slopes, eroded				
	100	Centerburg	3e	—
CnA—Condit silt loam, 0 to 1 percent slopes				
	90	Condit	3w	—
EdA—Edwards muck, 0 to 1 percent slopes				
	85	Edwards	5w	—
GaC2—Gallman loam, loamy substratum, 6 to 12 percent slopes, eroded				
	100	Gallman	3e	—
GbA—Gallman silt loam, loamy substratum, 0 to 2 percent slopes				
	90	Gallman	1	—
GbB—Gallman silt loam, loamy substratum, 2 to 6 percent slopes				
	90	Gallman	2e	—
GcB—Gallman silt loam, till substratum, 2 to 6 percent slopes				
	100	Gallman	2e	—
Gwd5C2—Glynwood clay loam, 6 to 12 percent slopes, eroded				
	85	Glynwood	4e	—
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	—
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	—
HeF—Heverlo silt loam, 25 to 70 percent slopes				
	95	Heverlo	7e	—

Land Capability Classification--Delaware County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HyA—Hyatts silt loam, 0 to 2 percent slopes				
	100	Hyatts	2w	—
HyB—Hyatts silt loam, 2 to 4 percent slopes				
	100	Hyatts	2e	—
JmA—Jimtown silt loam, 0 to 2 percent slopes				
	90	Jimtown	2w	—
LbF—Latham-Brecksville complex, 25 to 70 percent slopes				
	40	Latham	7e	—
	35	Brecksville	7e	—
LeE—Leoni gravelly loam, 12 to 25 percent slopes				
	100	Leoni	6e	—
LoA—Lobdell silt loam, channery substratum, 0 to 2 percent slopes, occasionally flooded				
	90	Lobdell	2w	—
LsA—Lobdell, channery substratum-Sloan, till substratum complex, 0 to 2 percent slopes, occasionally flooded				
	60	Lobdell	2w	—
	35	Sloan	3w	—
LvB—Loudonville silt loam, 2 to 6 percent slopes				
	90	Loudonville	2e	—
LyD2—Lybrand silt loam, 12 to 18 percent slopes, eroded				
	90	Lybrand	4e	—
LyE2—Lybrand silt loam, 18 to 25 percent slopes, eroded				
	100	Lybrand	6e	—
LzD3—Lybrand silty clay loam, 12 to 18 percent slopes, severely eroded				
	100	Lybrand	6e	—
MaB—Martinsville loam, 2 to 6 percent slopes				
	100	Martinsville	2e	—
MbB—Martinsville loam, till substratum, 2 to 6 percent slopes				
	100	Martinsville	2e	—

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			Nonirrigated	Irrigated
McD2—Mentor silt loam, 12 to 18 percent slopes, eroded				
	100	Mentor	4e	—
MfA—Millgrove silt loam, 0 to 2 percent slopes				
	90	Millgrove	2w	—
MgA—Millgrove silty clay loam, 0 to 2 percent slopes				
	95	Millgrove	2w	—
MhA—Millgrove silty clay loam, 0 to 2 percent slopes, rarely flooded				
	95	Millgrove	2w	—
MoB—Milton silt loam, 2 to 6 percent slopes				
	90	Milton	2e	—
MoC2—Milton silt loam, 6 to 12 percent slopes, eroded				
	90	Milton	3e	—
MpD2—Milton-Lybrand complex, 12 to 18 percent slopes, eroded				
	50	Milton	4e	—
	50	Lybrand	4e	—
PaA—Pacer silt loam, 0 to 2 percent slopes				
	95	Pacer	1	—
PwA—Pewamo silty clay loam, 0 to 1 percent slopes				
	85	Pewamo	2w	—
Pz—Pits, gravel				
	85	Pits	—	—
RdB2—Rarden silt loam, 2 to 6 percent slopes, eroded				
	100	Rarden	3e	—
RdC2—Rarden silt loam, 6 to 15 percent slopes, eroded				
	90	Rarden	4e	—
RdF2—Rarden silt loam, 20 to 50 percent slopes, eroded				
	100	Rarden	7e	—
RoA—Rossburg silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Rossburg	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
R _s A—Rossburg-Sloan complex, 0 to 2 percent slopes, occasionally flooded				
	50	Rossburg	2w	—
	40	Sloan	3w	—
S _c A—Scioto silt loam, 0 to 2 percent slopes				
	90	Scioto	2s	—
S _c B—Scioto silt loam, 2 to 6 percent slopes				
	90	Scioto	2e	—
S _d C ₂ —Scioto silty clay loam, 6 to 12 percent slopes, eroded				
	90	Scioto	3e	—
S _f A—Scioto silt loam, 0 to 2 percent slopes, rarely flooded				
	100	Scioto	2s	—
S _g A—Shoals silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Shoals	2w	—
S _k A—Sloan silt loam, 0 to 2 percent slopes, occasionally flooded				
	90	Sloan	3w	—
S _n A—Sloan silt loam, till substratum, 0 to 2 percent slopes, occasionally flooded				
	85	Sloan	3w	—
S _o A—Sloan silty clay loam, till substratum, 0 to 2 percent slopes, occasionally flooded				
	85	Sloan	3w	—
S _s A—Smothers silt loam, 0 to 2 percent slopes				
	95	Smothers	2w	—
S _s B—Smothers silt loam, 2 to 4 percent slopes				
	85	Smothers	2e	—
S _t A—Stone silty clay loam, 0 to 2 percent slopes				
	85	Stone	2w	—
S _u A—Stone clay loam, 0 to 2 percent slopes, rarely flooded				
	85	Stone	2w	—
U _c —Udorthents				
	100	Udorthents	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
UdB--Udorthents, clayey-Urban land complex, undulating				
	45	Udorthents	—	—
	40	Urban land	—	—
Up--Udorthents-Pits complex				
	50	Udorthents	—	—
	35	Pits	—	—
W--Water				
	100	Water	—	—

Data Source Information

Soil Survey Area: Delaware County, Ohio
 Survey Area Data: Version 13, Sep 18, 2014