

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—Clark County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ad—Adrian muck, drained				
	90	Adrian	4w	—
Ae—Adrian muck, undrained				
	90	Adrian	5w	—
Ca—Carlisle muck, drained				
	90	Carlisle	3w	—
Cb—Carlisle muck, undrained				
	90	Carlisle	5w	—
CcD2—Casco gravelly loam, 12 to 20 percent slopes, eroded				
	80	Casco	6e	—
CeA—Celina silt loam, 0 to 2 percent slopes				
	85	Celina	1	—
CeB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—
ChA—Celina-Strawn complex, 0 to 2 percent slopes				
	50	Celina	1	—
	35	Strawn	1	—
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	—

Land Capability Classification--Clark County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
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	—
DAM—Dam				
	100	Dam	—	—
DoE—Donnelsville channery silt loam, 18 to 30 percent slopes				
	80	Donnelsville	6e	—
DpF—Donnelsville-Rock outcrop complex, 30 to 70 percent slopes				
	70	Donnelsville	7e	—
	15	Rock outcrop	—	—
Dr—Drummer silty clay loam, gravelly substratum				
	90	Drummer	2w	—
EmA—Eldean silt loam, 0 to 2 percent slopes				
	75	Eldean	2s	—
EmB—Eldean silt loam, 2 to 6 percent slopes				
	85	Eldean	2e	—
EmB2—Eldean silt loam, 2 to 6 percent slopes, eroded				
	75	Eldean	2e	—
EmC2—Eldean silt loam, 6 to 12 percent slopes, eroded				
	80	Eldean	3e	—
EnC2—Eldean-Casco complex, 6 to 12 percent slopes, eroded				
	50	Eldean	3e	—
	30	Casco	4e	—
EpB—Eldean-Miamian complex, 2 to 6 percent slopes				
	50	Eldean	2e	—
	35	Miamian	2e	—

Land Capability Classification--Clark County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EpB2—Eldean-Miamian complex, 2 to 6 percent slopes, eroded				
	50	Eldean	2e	—
	35	Miamian	2e	—
EpC2—Eldean-Miamian complex, 6 to 12 percent slopes, eroded				
	50	Eldean	3e	—
	35	Miamian	3e	—
EpC3—Eldean-Miamian complex, 6 to 12 percent slopes, severely eroded				
	50	Eldean	4e	—
	35	Miamian	4e	—
EpD2—Eldean-Miamian complex, 12 to 18 percent slopes, eroded				
	45	Eldean	4e	—
	40	Miamian	4e	—
EpD3—Eldean-Miamian complex, 12 to 18 percent slopes, severely eroded				
	45	Eldean	6e	—
	40	Miamian	6e	—
EpE2—Eldean-Miamian complex, 18 to 30 percent slopes, eroded				
	45	Eldean	6e	—
	40	Miamian	6e	—
EsE3—Eldean-Rodman complex, 18 to 30 percent slopes, severely eroded				
	45	Eldean	6e	—
	40	Rodman	7s	—
EuB—Eldean-Urban land complex, 2 to 6 percent slopes				
	45	Eldean	—	—
	40	Urban land	—	—
EuC—Eldean-Urban land complex, 6 to 12 percent slopes				
	45	Eldean	—	—
	40	Urban land	—	—
Ge—Genesee silt loam, till substratum, rarely flooded				
	100	Genesee	1	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Gn—Genesee silt loam, till substratum, occasionally flooded				
	75	Genesee	2w	—
IoA—Ionia silt loam, 0 to 2 percent slopes				
	95	Ionia	2s	—
Ko—Kokomo silty clay loam, 0 to 2 percent slopes				
	90	Kokomo	2w	—
LeB—Lewisburg-Celina silt loams, 2 to 6 percent slopes				
	50	Lewisburg	2e	—
	30	Celina	2e	—
Lg—Linwood muck, undrained				
	85	Linwood	5w	—
Lh—Linwood mucky silt loam, drained				
	80	Linwood	2w	—
Lm—Lippincott mucky silt loam				
	85	Lippincott	2w	—
Lp—Lippincott silty clay loam				
	80	Lippincott	2w	—
Lu—Lippincott-Urban land complex				
	50	Lippincott	—	—
	35	Urban land	—	—
MeB—Miamian-Eldean silt loams, 2 to 6 percent slopes				
	50	Miamian	2e	—
	35	Eldean	2e	—
MeC2—Miamian-Eldean silt loams, 6 to 12 percent slopes, eroded				
	60	Miamian	3e	—
	25	Eldean	3e	—
MfE2—Miamian silt loam, 18 to 25 percent slopes, eroded				
	90	Miamian	6e	—
MgB2—Miamian silty clay loam, limestone substratum, 2 to 6 percent slopes, eroded				
	85	Miamian	2e	—

Land Capability Classification--Clark County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MgC2—Miamiian silty clay loam, limestone substratum, 6 to 12 percent slopes, eroded				
	85	Miamian	3e	—
MgE2—Miamiian silty clay loam, limestone substratum, 18 to 30 percent slopes, eroded				
	85	Miamian	6e	—
MhA—Miamiian silt loam, 0 to 2 percent slopes				
	90	Miamian	1	—
MhB—Miamiian silt loam, 2 to 6 percent slopes				
	85	Miamian	2e	—
MhB2—Miamiian silt loam, 2 to 6 percent slopes, eroded				
	85	Miamian, eroded	2e	—
MhC—Miamiian silt loam, 6 to 12 percent slopes				
	85	Miamian	3e	—
MhC2—Miamiian silt loam, 6 to 12 percent slopes, eroded				
	85	Miamian	3e	—
MhD2—Miamiian silt loam, 12 to 18 percent slopes, eroded				
	85	Miamian	4e	—
MhE—Miamiian silt loam, 18 to 30 percent slopes				
	90	Miamian	6e	—
MhE2—Miamiian silt loam, 18 to 30 percent slopes, eroded				
	85	Miamian	6e	—
MkB2—Miamiian silty clay loam, 2 to 6 percent slopes, eroded				
	85	Miamian	2e	—
MkC2—Miamiian silty clay loam, 6 to 12 percent slopes, eroded				
	90	Miamian	3e	—
MkD2—Miamiian silty clay loam, 12 to 18 percent slopes, eroded				
	85	Miamian	4e	—
MmC3—Miamiian clay loam, shallow to dense till substratum, 6 to 12 percent slopes, severely eroded				
	90	Miamian, severely eroded	4e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MmD3—Miamiian clay loam, 12 to 18 percent slopes, severely eroded				
	85	Miamian	6e	—
MmE3—Miamiian clay loam, 18 to 30 percent slopes, severely eroded				
	85	Miamian	6e	—
MnB—Miamiian-Urban land complex, 2 to 6 percent slopes				
	50	Miamian	—	—
	45	Urban land	—	—
MnC—Miamiian-Urban land complex, 6 to 12 percent slopes				
	50	Miamian	—	—
	30	Urban land	—	—
Mo—Milford silty clay loam, sandy substratum				
	85	Milford	3w	—
Ms—Millsdale silty clay loam				
	80	Millsdale	3w	—
MtA—Milton silt loam, 0 to 2 percent slopes				
	85	Milton	2s	—
MtB—Milton silt loam, 2 to 6 percent slopes				
	85	Milton	2e	—
MvC2—Milton silty clay loam, 6 to 12 percent slopes, eroded				
	80	Milton	3e	—
MxB—Milton-Urban land complex, 2 to 6 percent slopes				
	50	Milton	—	—
	35	Urban land	—	—
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	—
Pa—Patton silty clay loam				
	85	Patton	2w	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—

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			Nonirrigated	Irrigated
Ph—Pits, quarry				
	100	Pits, quarry	—	—
Pl—Pits, lime				
	100	Pits	—	—
RaA—Randolph silt loam, 0 to 2 percent slopes				
	80	Randolph	3w	—
RgE—Rodman gravelly loam, 18 to 35 percent slopes				
	85	Rodman	7s	—
Rn—Ross silt loam, occasionally flooded				
	75	Ross	2w	—
Ro—Ross silty clay loam, rarely flooded				
	85	Ross	1	—
RuA—Rush silt loam, 0 to 2 percent slopes				
	80	Rush	1	—
ScA—Savona silt loam, 0 to 2 percent slopes				
	85	Savona	2w	—
Sh—Shoals silt loam				
	90	Shoals	2w	—
So—Sloan silt loam, sandy substratum, occasionally flooded				
	85	Sloan	3w	—
StB2—Strawn silty clay loam, 2 to 6 percent slopes, eroded				
	90	Strawn	2e	—
StC2—Strawn silty clay loam, 6 to 12 percent slopes, eroded				
	85	Strawn	3e	—
StD2—Strawn silty clay loam, 12 to 18 percent slopes, eroded				
	90	Strawn	4e	—
StE2—Strawn silty clay loam, 18 to 35 percent slopes, eroded				
	100	Strawn	6e	—
SuA—Strawn-Crosby complex, 0 to 2 percent slopes				
	55	Strawn	2w	—
	30	Crosby	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
SuB—Strawn-Crosby complex, 2 to 6 percent slopes				
	55	Strawn	2e	—
	30	Crosby	2e	—
ThA—Thackery silt loam, 0 to 2 percent slopes				
	85	Thackery	1	—
Tr—Tremont silty clay loam, rarely flooded				
	80	Tremont	1	—
Ts—Tremont silt loam, occasionally flooded				
	80	Tremont	2w	—
Ud—Udorthents, loamy				
	90	Udorthents	—	—
Ur—Urban land				
	90	Urban land	—	—
W—Water				
	100	Water	—	—
Wc—Walkkill silt loam, occasionally flooded				
	80	Walkkill	3w	—
WdA—Warsaw loam, 0 to 2 percent slopes				
	90	Warsaw	2s	—
WeA—Warsaw silt loam, 0 to 3 percent slopes				
	85	Warsaw	2s	—
WfA—Warsaw silt loam, 0 to 2 percent slopes				
	100	Warsaw	2s	—
WpA—Waupecan silt loam, 0 to 2 percent slopes				
	85	Waupecan	1	—
WrA—Waynetown silt loam, 0 to 2 percent slopes				
	80	Waynetown	2w	—
Wt—Westland silty clay loam				
	90	Westland	2w	—

Data Source Information

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