

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—Montgomery 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	—
Bo—Borrow pits				
	100	Borrow pits	—	—
Bp—Brookston silt loam				
	93	Brookston	2w	—
Br—Brookston silt loam, overwash				
	100	Brookston	2w	—
Bs—Brookston silty clay loam				
	93	Brookston	2w	—
Bu—Brookston-Urban land complex				
	45	Brookston	—	—
	40	Urban land	—	—
Ca—Carlisle muck				
	95	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, moderately eroded				
	95	Celina	2e	—
CIB—Celina bouldery silt loam, 2 to 6 percent slopes				
	96	Celina	2e	—
CoA—Corwin silt loam, 0 to 2 percent slopes				
	95	Corwin	1	—
CoB—Corwin silt loam, 2 to 6 percent slopes				
	95	Corwin	2e	—

Land Capability Classification--Montgomery County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CpB—Crosby-Celina silt loams, 2 to 4 percent slopes				
	50	Crosby	2e	—
	40	Celina	2e	—
CsA—Crosby silt loam, 0 to 2 percent slopes				
	90	Crosby	2w	—
CtA—Crosby-Celina silt loams, 0 to 2 percent slopes				
	60	Crosby	2w	—
	30	Celina	1	—
CtB—Crosby-Celina silt loams, 2 to 6 percent slopes				
	55	Crosby	2w	—
	35	Celina	2e	—
Cu—Crosby-Urban land complex				
	55	Crosby	—	—
	35	Urban land	—	—
CvA—Crosby-Lewisburg silt loams, 0 to 2 percent slopes				
	60	Crosby	2w	—
	30	Lewisburg	2s	—
DaB—Dana silt loam, 2 to 6 percent slopes				
	95	Dana	2e	—
EeA—Eel silt loam, gravelly substratum, 0 to 1 percent slopes, occasionally flooded				
	85	Eel	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	—
FaE2—Fairmount silty clay loam, 12 to 25 percent slopes, moderately eroded				
	100	Fairmount	6e	—
FaF2—Fairmount silty clay loam, 25 to 50 percent slopes, moderately eroded				
	100	Fairmount	6e	—
FcA—Fincastle silt loam, 0 to 4 percent slopes				
	92	Fincastle	2w	—

Land Capability Classification--Montgomery County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FkA—Fox sandy loam, 0 to 2 percent slopes	100	Fox	2s	—
FkB—Fox sandy loam, 2 to 6 percent slopes	100	Fox	2e	—
FIA—Fox loam, 0 to 2 percent slopes	100	Fox	2s	—
FIB—Fox loam, 2 to 6 percent slopes	100	Fox	2e	—
FIC2—Fox loam, 6 to 12 percent slopes, moderately eroded	100	Fox	3e	—
FmA—Fox silt loam, 0 to 2 percent slopes	100	Fox	2s	—
FmB—Fox silt loam, 2 to 6 percent slopes	100	Fox	2e	—
FmC2—Fox silt loam, 6 to 12 percent slopes, moderately eroded	100	Fox	3e	—
FmD2—Fox silt loam, 12 to 18 percent slopes, moderately eroded	95	Fox	4e	—
FnA—Fox silt loam, till substratum, 0 to 2 percent slopes	90	Fox	2s	—
FsC3—Fox soils, 6 to 12 percent slopes, severely eroded	95	Fox	4e	—
FuB—Fox-Urban land complex, gently sloping	50	Fox	—	—
	50	Urban land	—	—
FuC—Fox-Urban land complex, rolling	60	Urban land	—	—
	40	Fox	—	—
FuF—Fox-Urban land complex, steep	60	Urban land	—	—
	40	Fox	—	—

Land Capability Classification--Montgomery County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Gp—Gravel pits				
	100	Gravel pits	—	—
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	—
HmF3—Hennepin and Miamian soils, 18 to 50 percent slopes, severely eroded				
	60	Hennepin	7e	—
	40	Miamian	7e	—
KeA—Kendallville silt loam, 0 to 2 percent slopes				
	100	Kendallville	1	—
KeB—Kendallville silt loam, 2 to 6 percent slopes				
	100	Kendallville	2e	—
KeC2—Kendallville silt loam, 6 to 12 percent slopes, moderately eroded				
	98	Kendallville	3e	—
KfD2—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	—
Ld—Landes sandy loam				
	95	Landes	2w	—
LfB—Lewisburg-Celina silt loams, 2 to 6 percent slopes				
	50	Lewisburg	2e	—
	40	Celina	2e	—
Lg—Lanier sandy loam				
	95	Lanier	2w	—

Land Capability Classification--Montgomery County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LsB—Lewisburg silt loam, 2 to 6 percent slopes				
	95	Lewisburg	2e	—
LxC2—Lorenzo-Rodman complex, 4 to 12 percent slopes, moderately eroded				
	55	Lorenzo	4e	—
	45	Rodman	4s	—
LxD2—Lorenzo-Rodman complex, 12 to 18 percent slopes, moderately eroded				
	55	Lorenzo	6e	—
	45	Rodman	6s	—
Mb—Made land				
	100	Made land	—	—
Md—Medway silt loam				
	98	Medway	2w	—
MfB—Miamiian-Celina silt loams, 2 to 6 percent slopes				
	60	Miamiian	2e	—
	30	Celina	2e	—
MfB2—Miamiian-Celina silt loams, 2 to 6 percent slopes, eroded				
	60	Miamiian	2e	—
	30	Celina	2e	—
MgF2—Miamiian-Kendallville silt loams, 25 to 50 percent slopes, eroded				
	70	Miamiian	7e	—
	20	Kendallville	7e	—
MhC3—Miamiian-Losantville clay loams, 6 to 12 percent slopes, severely eroded				
	60	Miamiian	4e	—
	30	Losantville	4e	—
MhD3—Miamiian-Losantville clay loams, 12 to 18 percent slopes, severely eroded				
	60	Miamiian	6e	—
	30	Losantville	6e	—
MIA—Miamiian silt loam, 0 to 2 percent slopes				
	98	Miamiian	1	—
MIB—Miamiian silt loam, 2 to 6 percent slopes				
	85	Miamiian	2e	—

Land Capability Classification--Montgomery County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MIB2—Miamiian silt loam, 2 to 6 percent slopes, moderately eroded				
	94	Miamian	2e	—
MIC2—Miamiian silt loam, 6 to 12 percent slopes, moderately eroded				
	93	Miamian	3e	—
MID2—Miamiian silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Miamian	4e	—
MmB—Miamiian bouldery silt loam, 2 to 6 percent slopes				
	99	Miamian	2e	—
MnB3—Miamiian clay loam, 2 to 6 percent slopes, severely eroded				
	98	Miamian	3e	—
MnC3—Miamiian clay loam, 6 to 12 percent slopes, severely eroded				
	90	Miamian, severely eroded	4e	—
MnD3—Miamiian clay loam, 12 to 18 percent slopes, severely eroded				
	95	Miamian	6e	—
MoB—Miamiian-Urban land complex, undulating				
	59	Miamian	—	—
	40	Urban land	—	—
MoC—Miamiian-Urban land complex, rolling				
	63	Miamian	—	—
	35	Urban land	—	—
MoE—Miamiian-Urban land complex, steep				
	60	Miamian	—	—
	40	Urban land	—	—
MrA—Millsdale silty clay loam, 0 to 3 percent slopes				
	100	Millsdale	3w	—
MsA—Milton silt loam, 0 to 2 percent slopes				
	100	Milton	2s	—
MsB—Milton silt loam, 2 to 6 percent slopes				
	100	Milton	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MsB2—Milton silt loam, 2 to 6 percent slopes, moderately eroded				
	96	Milton	2e	—
MsC2—Milton silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Milton	3e	—
MsD2—Milton silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Milton	4e	—
MtD3—Milton silty clay loam, 6 to 18 percent slopes, severely eroded				
	95	Milton	6e	—
MuB—Milton-Urban land complex, undulating				
	55	Milton	—	—
	40	Urban land	—	—
MuC—Milton-Urban land complex, rolling				
	60	Milton	—	—
	40	Urban land	—	—
MuD—Milton-Urban land complex, hilly				
	60	Milton	—	—
	40	Urban land	—	—
Mv—Montgomery silty clay loam				
	100	Montgomery	3w	—
MwA—Millsdale silt loam, 0 to 2 percent slopes				
	90	Millsdale	4w	—
OcA—Ockley silt loam, 0 to 2 percent slopes				
	100	Ockley	1	—
OcB—Ockley silt loam, 2 to 6 percent slopes				
	100	Ockley	2e	—
PIB—Plattville silt loam, 2 to 6 percent slopes				
	97	Plattville	2e	—
PIC—Plattville silt loam, 6 to 12 percent slopes				
	97	Plattville	3e	—
PmB—Plattville silt loam, moderately wet, 2 to 6 percent slopes				
	85	Plattville	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
PyA—Pyrmont silt loam, 0 to 2 percent slopes				
	96	Pyrmont	2w	—
Qu—Quarries				
	100	Quarries	—	—
RaA—Rainsville silt loam, 0 to 2 percent slopes				
	85	Rainsville	1	—
RcA—Randolph silt loam, 0 to 2 percent slopes				
	96	Randolph	3w	—
ReB—Ritchey silt loam, 2 to 6 percent slopes				
	100	Ritchey	3e	—
ReB2—Ritchey silt loam, 2 to 6 percent slopes, moderately eroded				
	95	Ritchey	3e	—
ReC2—Ritchey silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Ritchey	4e	—
ReE2—Ritchey silt loam, 12 to 25 percent slopes, moderately eroded				
	97	Ritchey	6e	—
ReF2—Ritchey silt loam, 25 to 50 percent slopes, moderately eroded				
	95	Ritchey	6e	—
RfD3—Ritchey silty clay loam, 6 to 18 percent slopes, severely eroded				
	98	Ritchey	4e	—
Rh—Riverwash				
	100	Riverwash	—	—
RIE2—Rodman and Fox soils, 18 to 25 percent slopes, moderately eroded				
	50	Rodman	7s	—
	45	Fox	7e	—
RIF2—Rodman and Fox soils, 25 to 50 percent slopes, moderately eroded				
	50	Rodman	7s	—
	45	Fox	7e	—
RpA—Rossburg silt loam, moderately wet, sandy substratum, 0 to 1 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
Rs—Ross silt loam				
	97	Ross	2w	—
Rt—Ross-Urban land complex				
	50	Urban land	—	—
	48	Ross	—	—
RuB—Russell silt loam, 2 to 6 percent slopes				
	98	Russell	2e	—
RvC2—Russell-Miamian silt loams, 6 to 12 percent slopes, moderately eroded				
	55	Russell	3e	—
	43	Miamian	3e	—
RvD2—Russell-Miamian silt loams, 12 to 18 percent slopes, moderately eroded				
	55	Russell	4e	—
	40	Miamian	4e	—
Sh—Shoals silt loam				
	95	Shoals	2w	—
Sn—Sloan silt loam, sandy substratum, occasionally flooded				
	85	Sloan	3w	—
So—Sloan silt loam				
	100	Sloan	3w	—
StA—Stonelick loam, gravelly substratum, 0 to 1 percent slopes, frequently flooded				
	90	Stonelick	3w	—
ThA—Thackery silt loam, till substratum, 0 to 2 percent slopes				
	97	Thackery	1	—
TpA—Tippecanoe silt loam, 0 to 2 percent slopes				
	95	Tippecanoe	1	—
Ua—Urban land, alluvial				
	100	Urban land	—	—
Ud—Udorthents				
	100	Udorthents	—	—
Ug—Urban land, gravelly material				
	100	Urban land	—	—

Land Capability Classification--Montgomery County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Um—Urban land, loamy material				
	100	Urban land	—	—
Un—Udorthents				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
WaA—Warsaw silt loam, 0 to 2 percent slopes				
	100	Warsaw	2s	—
WaB—Warsaw silt loam, 2 to 6 percent slopes				
	100	Warsaw	2e	—
WeA—Wea silt loam, 0 to 2 percent slopes				
	100	Wea	1	—
WeB—Wea silt loam, 2 to 6 percent slopes				
	100	Wea	2e	—
Ws—Westland silty clay loam				
	100	Westland	2w	—
WyB2—Wynn silt loam, 2 to 6 percent slopes, moderately eroded				
	100	Wynn	2e	—
XeA—Xenia silt loam, 0 to 2 percent slopes				
	97	Xenia	1	—
XeB—Xenia silt loam, 2 to 6 percent slopes				
	97	Xenia	2e	—

Data Source Information

Soil Survey Area: Montgomery County, Ohio
 Survey Area Data: Version 12, Dec 17, 2013