

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—Portage County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BaA—Bogart loam, 0 to 2 percent slopes				
	85	Bogart	2s	—
BaB—Bogart loam, 2 to 6 percent slopes				
	85	Bogart	2e	—
BgA—Bogart silt loam, 0 to 2 percent slopes				
	100	Bogart	2s	—
BgB—Bogart silt loam, 2 to 6 percent slopes				
	100	Bogart	2e	—
BhB—Bogart-Haskins complex, 2 to 6 percent slopes				
	50	Bogart	2e	—
	40	Haskins	2e	—
Bp—Borrow pits				
	100	Borrow pits	—	—
Ca—Canadice silt loam				
	100	Canadice	4w	—
CcA—Caneadea silt loam, 0 to 2 percent slopes				
	90	Caneadea	3w	—
CcB—Caneadea silt loam, 2 to 6 percent slopes				
	90	Caneadea	3w	—
CdA—Canfield silt loam, 0 to 2 percent slopes				
	85	Canfield	2w	—
CdB—Canfield silt loam, 2 to 6 percent slopes				
	90	Canfield	2e	—
CdC—Canfield silt loam, 6 to 12 percent slopes				
	90	Canfield	3e	—
CdC2—Canfield silt loam, 6 to 12 percent slopes, eroded				
	90	Canfield, eroded	3e	—

Land Capability Classification--Portage County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ce--Canadice silty clay loam				
	95	Canadice	4w	—
CfB--Canfield-Urban land complex, 2 to 6 percent slopes				
	45	Canfield	2e	—
	35	Urban land	8	—
CfC--Canfield-Urban land complex, 6 to 12 percent slopes				
	50	Canfield	3e	—
	40	Urban land	8	—
Cg--Carlisle muck				
	100	Carlisle	3w	—
CnA--Chili loam, 0 to 2 percent slopes				
	100	Chili	2s	—
CnB--Chili loam, 2 to 6 percent slopes				
	100	Chili	2e	—
CnC--Chili loam, 6 to 12 percent slopes				
	100	Chili	3e	—
CoC2--Chili gravelly loam, 6 to 12 percent slopes, moderately eroded				
	100	Chili	3e	—
CoD2--Chili gravelly loam, 12 to 18 percent slopes, moderately eroded				
	85	Chili	4e	—
CpA--Chili silt loam, 0 to 2 percent slopes				
	100	Chili	2s	—
CpB--Chili silt loam, 2 to 6 percent slopes				
	100	Chili	2e	—
CpC--Chili silt loam, 6 to 12 percent slopes				
	100	Chili	3e	—
CpC2--Chili silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Chili	3e	—
Cr--Carlisle muck, ponded				
	85	Carlisle	5w	—

Land Capability Classification--Portage County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CtD—Chili-Oshtemo complex, 12 to 18 percent slopes				
	55	Chili	4e	—
	45	Oshtemo	4e	—
CtE—Chili-Oshtemo complex, 18 to 25 percent slopes				
	55	Chili	6e	—
	45	Oshtemo	6e	—
CtF—Chili-Oshtemo complex, 25 to 50 percent slopes				
	55	Chili	7e	—
	45	Oshtemo	7e	—
CuB—Chili-Urban land complex, undulating				
	40	Chili	—	—
	30	Urban land	—	—
CuC—Chili-Urban land complex, rolling				
	40	Chili	—	—
	30	Urban land	—	—
CwC2—Chili-Wooster complex, 6 to 12 percent slopes, moderately eroded				
	50	Chili	3e	—
	30	Wooster	3e	—
CwD2—Chili-Wooster complex, 12 to 18 percent slopes, moderately eroded				
	50	Chili	4e	—
	30	Wooster	4e	—
CwE—Chili-Wooster complex, 18 to 30 percent slopes				
	50	Chili	6e	—
	30	Wooster	6e	—
CyE2—Conotton gravelly loam, 18 to 25 percent slopes, moderately eroded				
	100	Conotton	7e	—
Da—Damascus loam				
	100	Damascus	3w	—
DeF—DeKalb very stony loam, 25 to 50 percent slopes				
	90	DeKalb	7s	—

Land Capability Classification--Portage County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
DkB--Dekalb channery loam, 2 to 6 percent slopes				
	100	Dekalb	2e	—
DkC--Dekalb channery loam, 6 to 12 percent slopes				
	100	Dekalb	3e	—
DkD--Dekalb channery loam, 12 to 25 percent slopes				
	95	Dekalb	4e	—
DkF--Dekalb channery loam, 25 to 70 percent slopes				
	95	Dekalb	7e	—
EhE--Ellsworth silt loam, 18 to 25 percent slopes				
	90	Ellsworth	4e	—
EIB--Ellsworth silt loam, 2 to 6 percent slopes				
	85	Ellsworth	2e	—
EIB2--Ellsworth silt loam, 2 to 6 percent slopes, eroded				
	85	Ellsworth, eroded	2e	—
EIC--Ellsworth silt loam, 6 to 12 percent slopes				
	90	Ellsworth	3e	—
EIC2--Ellsworth silt loam, 6 to 12 percent slopes, eroded				
	90	Ellsworth, eroded	3e	—
EID2--Ellsworth silt loam, 12 to 18 percent slopes, eroded				
	90	Ellsworth, eroded	4e	—
EIE2--Ellsworth silt loam, 18 to 50 percent slopes, eroded				
	85	Ellsworth, eroded	6e	—
EsB--Ellsworth silt loam, sandstone substratum, 2 to 6 percent slopes				
	85	Ellsworth, sandstone substratum	2e	—
EuB--Ellsworth-Urban land complex, 2 to 6 percent slopes				
	45	Ellsworth	2e	—
	30	Urban land	8	—
FcA--Fitchville silt loam, 0 to 2 percent slopes				
	90	Fitchville	2w	—

Land Capability Classification--Portage County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FcB--Fitchville silt loam, 2 to 6 percent slopes				
	90	Fitchville	2e	—
FnA--Fitchville-Urban land complex, nearly level				
	40	Fitchville	—	—
	30	Urban land	—	—
Fr--Frenchtown silt loam				
	100	Frenchtown	3w	—
GbB--Geeburg silt loam, 2 to 6 percent slopes				
	100	Geeburg	3e	—
GbB2--Geeburg silt loam, 2 to 6 percent slopes, moderately eroded				
	100	Geeburg	3e	—
GbC2--Geeburg silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Geeburg	4e	—
GbD2--Geeburg silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Geeburg	6e	—
GcB--Geeburg-Urban land complex, undulating				
	40	Geeburg	—	—
	30	Urban land	—	—
GeF--Geeburg and Glenford silt loams, steep				
	50	Geeburg	7e	—
	50	Glenford	6e	—
GfA--Glenford silt loam, 0 to 2 percent slopes				
	100	Glenford	1	—
GfB--Glenford silt loam, 2 to 6 percent slopes				
	100	Glenford	2e	—
GfC2--Glenford silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Glenford	3e	—
GfD2--Glenford silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Glenford	4e	—
HaB--Haskins loam, 2 to 6 percent slopes				
	100	Haskins	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Hk--Holly silt loam, alkaline				
	95	Holly	3w	—
Ho--Holly silt loam				
	95	Holly	3w	—
HrB--Hornell silt loam, 3 to 8 percent slopes				
	100	Hornell	3w	—
Hy--Holly silt loam, frequently flooded				
	85	Holly	3w	—
JtA--Jimtown loam, 0 to 2 percent slopes				
	90	Jimtown	2w	—
JtB--Jimtown loam, 2 to 6 percent slopes				
	100	Jimtown	2e	—
LaB--Lakin loamy sand, 2 to 6 percent slopes				
	100	Lakin	3s	—
LaC--Lakin loamy sand, 6 to 12 percent slopes				
	100	Lakin	4s	—
Ld--Linwood muck				
	100	Linwood	2w	—
Ln--Lorain silty clay loam				
	100	Lorain	3w	—
LoB--Loudonville silt loam, 2 to 6 percent slopes				
	100	Loudonville	2e	—
LoC--Loudonville silt loam, 6 to 12 percent slopes				
	100	Loudonville	3e	—
LoC2--Loudonville silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Loudonville	3e	—
LoD2--Loudonville silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Loudonville	4e	—
LoE--Loudonville silt loam, 18 to 25 percent slopes				
	100	Loudonville	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LrF—Lordstown-Rock outcrop complex, 18 to 70 percent slopes				
	55	Lordstown	7e	—
	35	Rock outcrop	—	—
Ly—Luray silt loam				
	100	Luray	2w	—
MgA—Mahoning silt loam, 0 to 2 percent slopes				
	85	Mahoning	3w	—
MgB—Mahoning silt loam, 2 to 6 percent slopes				
	85	Mahoning	3w	—
MnB—Mahoning-Urban land complex, 2 to 6 percent slopes				
	45	Mahoning	3w	—
	30	Urban land	8	—
MtA—Mitiwanga silt loam, 0 to 2 percent slopes				
	100	Mitiwanga	2w	—
MtB—Mitiwanga silt loam, 2 to 6 percent slopes				
	100	Mitiwanga	2e	—
MvB—Mitiwanga silt loam, moderately well drained variant, 2 to 6 percent slopes				
	100	Mitiwanga variant	2e	—
MvC—Mitiwanga silt loam, moderately well drained variant, 6 to 12 percent slopes				
	100	Mitiwanga variant	3e	—
Od—Olmsted loam				
	100	Olmsted	2w	—
Or—Orrville silt loam				
	90	Orrville	2w	—
OsB—Oshtemo sandy loam, 2 to 6 percent slopes				
	100	Oshtemo	3s	3e
OsC—Oshtemo sandy loam, 6 to 12 percent slopes				
	100	Oshtemo	3e	3e
Ov—Orrville silt loam, frequently flooded				
	85	Orrville	2w	—
Pg—Pits, gravel				
	100	Gravel pits	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Pq--Pits, quarries				
	100	Quarries	—	—
ReA--Ravenna silt loam, 0 to 2 percent slopes				
	90	Ravenna	2w	—
ReB--Ravenna silt loam, 2 to 6 percent slopes				
	100	Ravenna	2e	—
RmA--Remsen silt loam, 0 to 2 percent slopes				
	90	Remsen	3w	—
RmB--Remsen silt loam, 2 to 6 percent slopes				
	100	Remsen	3w	—
RsB--Rittman silt loam, 2 to 6 percent slopes				
	100	Rittman	2e	—
RsC--Rittman silt loam, 6 to 12 percent slopes				
	100	Rittman	3e	—
RsC2--Rittman silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Rittman	3e	—
RsD2--Rittman silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Rittman	4e	—
RsE2--Rittman silt loam, 18 to 25 percent slopes, moderately eroded				
	100	Rittman	6e	—
Sb--Sebring silt loam				
	100	Sebring	3w	—
Sv--Sebring silt loam, dark surface variant				
	100	Sebring variant	2w	—
Sx--Sebring silt loam, till substratum				
	100	Sebring	3w	—
Sy--Sloan silt loam				
	90	Sloan	3w	—
Ta--Tioga loam, occasionally flooded				
	85	Tioga	2w	—
Tg--Tioga loam				
	100	Tioga	1	—
To--Tioga loam, frequently flooded				
	85	Tioga	2w	—

Land Capability Classification--Portage County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
TrA--Trumbull silt loam, 0 to 2 percent slopes				
	90	Trumbull	4w	—
Ts--Trumbull silty clay loam, 0 to 2 percent slopes				
	90	Trumbull	4w	—
TuB--Typic Udorthents, strip mined, undulating				
	100	Typic udorthents	—	—
TuD--Typic Udorthents, strip mined, hilly				
	100	Typic udorthents	—	—
Ua--Udorthents				
	100	Udorthents	—	—
Ud--Udorthents, loamy				
	100	Udorthents	—	—
Ur--Urban land				
	100	Urban land	—	—
W--Water				
	100	Water	—	—
WaA--Wadsworth silt loam, 0 to 2 percent slopes				
	90	Wadsworth	3w	—
WaB--Wadsworth silt loam, 2 to 6 percent slopes				
	95	Wadsworth	3e	—
Wc--Walkkill silt loam				
	100	Walkkill	3w	—
We--Willette muck				
	95	Willette	3w	—
WhA--Wheeling silt loam, 0 to 2 percent slopes				
	100	Wheeling	1	—
WhB--Wheeling silt loam, 2 to 6 percent slopes				
	100	Wheeling	2e	—
WuB--Wooster silt loam, 2 to 6 percent slopes				
	100	Wooster	2e	—
WuC--Wooster silt loam, 6 to 12 percent slopes				
	100	Wooster	3e	—

Land Capability Classification--Portage County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WuC2--Wooster silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Wooster	3e	—
WuD2--Wooster silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Wooster	4e	—
WuE2--Wooster silt loam, 18 to 50 percent slopes, moderately eroded				
	100	Wooster	6e	—

Data Source Information

Soil Survey Area: Portage County, Ohio
 Survey Area Data: Version 11, Sep 19, 2014