

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—Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BeF—Berks channery silt loam, 25 to 70 percent slopes				
	90	Berks	7e	—
BgA—Bogart loam, 0 to 2 percent slopes				
	85	Bogart	2s	—
BgB—Bogart loam, 2 to 6 percent slopes				
	85	Bogart	2e	—
BhB—Bogart-Haskins loams, 2 to 6 percent slopes				
	50	Bogart	2e	—
	40	Haskins	2e	—
Ca—Canadice silty clay loam				
	95	Canadice	4w	—
Cb—Chagrin loam, alkaline phase				
	100	Chagrin	2w	—
CcA—Caneadea silt loam, 0 to 2 percent slopes				
	95	Caneadea	3w	—
CcB—Caneadea silt loam, 2 to 6 percent slopes				
	85	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	—
Ce—Canadice silt loam				
	100	Canadice	4w	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CeB--Canfield silt loam, sandstone substratum, 2 to 6 percent slopes				
	90	Canfield, sandstone substratum	2e	—
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				
	90	Carlisle	3w	—
Ch--Chagrin silt loam				
	95	Chagrin	2w	—
Ck--Chagrin silt loam, alkaline				
	95	Chagrin	2w	—
Cm--Chagrin-Urban land complex				
	70	Chagrin	—	—
	30	Urban land	—	—
CnA--Chili loam, 0 to 2 percent slopes				
	95	Chili	2s	—
CnB--Chili loam, 2 to 6 percent slopes				
	85	Chili	2e	—
CnC--Chili loam, 6 to 12 percent slopes				
	95	Chili	3e	—
CoC--Chili gravelly loam, 6 to 12 percent slopes				
	100	Chili	3e	—
CoC2--Chili gravelly loam, 6 to 12 percent slopes, moderately eroded				
	90	Chili	3e	—
CoD2--Chili gravelly loam, 12 to 18 percent slopes, moderately eroded				
	85	Chili	4e	—
CoE2--Chili gravelly loam, 12 to 25 percent slopes, moderately eroded				
	100	Chili	6e	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CpA—Chili silt loam, 0 to 2 percent slopes				
	95	Chili	2s	—
CpB—Chili silt loam, 2 to 6 percent slopes				
	95	Chili	2e	—
CpC—Chili silt loam, 6 to 12 percent slopes				
	95	Chili	3e	—
CpC2—Chili silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Chili	3e	—
CsB—Conotton gravelly loam, 2 to 6 percent slopes				
	100	Conotton	3s	—
CsC—Conotton gravelly loam, 6 to 12 percent slopes				
	100	Conotton	4e	—
CsD2—Conotton gravelly loam, 12 to 18 percent slopes, moderately eroded				
	100	Conotton	6e	—
CtF2—Chili and Conotton gravelly loams, 25 to 50 percent slopes, moderately eroded				
	50	Chili	7e	—
	50	Conotton	7e	—
CuB—Chili-Urban land complex, undulating				
	70	Chili	—	—
	30	Urban land	—	—
CuC—Chili-Urban land complex, rolling				
	70	Chili	—	—
	30	Urban land	—	—
CvF—Chili-Oshtemo complex, 25 to 50 percent slopes				
	55	Chili	7e	—
	45	Oshtemo	7e	—
CwC2—Chili-Wooster complex, 6 to 12 percent slopes, moderately eroded				
	50	Chili	3e	—
	30	Wooster	3e	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CwD2—Chili-Wooster complex, 12 to 18 percent slopes, moderately eroded				
	50	Chili	4e	—
	30	Wooster	4e	—
CwE2—Chili-Wooster complex, 18 to 25 percent slopes, moderately eroded				
	50	Chili	6e	—
	30	Wooster	6e	—
CyD—Conotton-Oshtemo complex, 12 to 18 percent slopes				
	60	Conotton	6e	—
	30	Oshtemo	4e	—
CyE—Conotton-Oshtemo complex, 18 to 25 percent slopes				
	60	Conotton	6e	—
	30	Oshtemo	6e	—
CyF—Conotton-Oshtemo complex, 25 to 50 percent slopes				
	60	Conotton	7e	—
	30	Oshtemo	7e	—
Da—Damascus loam				
	90	Damascus	3w	—
DkC—Dekalb sandy loam, 6 to 12 percent slopes				
	90	Dekalb	3e	—
DkD—Dekalb sandy loam, 12 to 18 percent slopes				
	85	Dekalb	4e	—
DkE—Dekalb sandy loam, 18 to 25 percent slopes				
	85	Dekalb	6e	—
DkF—Dekalb sandy loam, 25 to 70 percent slopes				
	90	Dekalb	7e	—
EhD2—Ellsworth silt loam, 12 to 18 percent slopes, eroded				
	90	Ellsworth, eroded	4e	—
EIB—Ellsworth silt loam, 2 to 6 percent slopes				
	85	Ellsworth	2e	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
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	—
EIE2—Ellsworth silt loam, 12 to 25 percent slopes, eroded				
	90	Ellsworth, eroded	4e	—
EIF—Ellsworth silt loam, 25 to 70 percent slopes				
	85	Ellsworth	7e	—
EIF2—Ellsworth silt loam, 25 to 50 percent slopes, eroded				
	85	Ellsworth, eroded	7e	—
EsB—Ellsworth silt loam, sandstone substratum, 2 to 6 percent slopes				
	85	Ellsworth, sandstone substratum	2e	—
EsC—Ellsworth silt loam, sandstone substratum, 6 to 12 percent slopes				
	85	Ellsworth, sandstone substratum	3e	—
EuB—Ellsworth-Urban land complex, 2 to 6 percent slopes				
	45	Ellsworth	2e	—
	30	Urban land	8	—
EuC—Ellsworth-Urban land complex, 6 to 18 percent slopes				
	55	Ellsworth	3e	—
	30	Urban land	8	—
FcA—Fitchville silt loam, 0 to 2 percent slopes				
	90	Fitchville	2w	—
FcB—Fitchville silt loam, 2 to 6 percent slopes				
	90	Fitchville	2e	—
FIA—Fitchville silt loam, low terrace, 0 to 2 percent slopes				
	95	Fitchville	2w	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
F _n —Fitchville-Urban land complex				
	65	Fitchville	—	—
	30	Urban land	—	—
F _r —Frenchtown silt loam				
	100	Frenchtown	3w	—
G _b B—Geeburg silt loam, 2 to 6 percent slopes				
	85	Geeburg	3e	—
G _b C—Geeburg silt loam, 6 to 18 percent slopes				
	100	Geeburg	6e	—
G _b C2—Geeburg silt loam, 6 to 12 percent slopes, moderately eroded				
	85	Geeburg	4e	—
G _b D2—Geeburg silt loam, 12 to 18 percent slopes, moderately eroded				
	90	Geeburg	6e	—
G _f A—Glenford silt loam, 0 to 2 percent slopes				
	100	Glenford	1	—
G _f B—Glenford silt loam, 2 to 6 percent slopes				
	90	Glenford	2e	—
G _f C2—Glenford silt loam, 6 to 12 percent slopes, moderately eroded				
	85	Glenford	3e	—
G _f D2—Glenford silt loam, 12 to 18 percent slopes, moderately eroded				
	95	Glenford	4e	—
G _o B—Glenford-Urban land complex, undulating				
	70	Glenford	—	—
	30	Urban land	—	—
G _o C—Glenford-Urban land complex, rolling				
	70	Glenford	—	—
	30	Urban land	—	—
H _c B—Haskins-Caneadea complex, 2 to 6 percent slopes				
	50	Haskins	2e	—
	40	Caneadea	3w	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ho--Holly silt loam				
	85	Holly	3w	—
Hy--Holly silt loam, alkaline				
	95	Holly	3w	—
JtA--Jimtown loam, 0 to 2 percent slopes				
	85	Jimtown	2w	—
JtB--Jimtown loam, 2 to 6 percent slopes				
	90	Jimtown	2e	—
Ju--Jimtown-Urban land complex				
	65	Jimtown	—	—
	30	Urban land	—	—
Kk--Killbuck silt loam				
	95	Killbuck	3w	—
Ld--Linwood muck				
	95	Linwood	2w	—
Le--Lobdell silt loam				
	90	Lobdell	2w	—
Ln--Lorain silty clay loam				
	85	Lorain	3w	—
LoB--Loudonville silt loam, 2 to 6 percent slopes				
	90	Loudonville	2e	—
LoC--Loudonville silt loam, 6 to 12 percent slopes				
	95	Loudonville	3e	—
LoC2--Loudonville silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Loudonville	3e	—
LoD--Loudonville silt loam, 12 to 18 percent slopes				
	90	Loudonville	4e	—
LoD2--Loudonville silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Loudonville	4e	—
LoE--Loudonville silt loam, 18 to 25 percent slopes				
	95	Loudonville	6e	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LoE2—Loudonville silt loam, 12 to 25 percent slopes, moderately eroded				
	100	Loudonville	6e	—
LuC—Loudonville-Urban land complex, rolling				
	70	Loudonville	—	—
	30	Urban land	—	—
Ly—Luray silt loam				
	90	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	—
MIB—Mahoning silt loam, sandstone substratum, 2 to 6 percent slopes				
	90	Mahoning, sandstone substratum	3w	—
Mn—Mahoning-Urban land complex, 0 to 2 percent slopes				
	45	Mahoning	3w	—
	35	Urban land	8	—
MtB—Mitiwanga silt loam, 2 to 6 percent slopes				
	100	Mitiwanga	2e	—
Od—Olmsted loam				
	85	Olmsted	2w	—
Or—Orrville silt loam				
	95	Orrville	2w	—
OsA—Oshtemo sandy loam, 0 to 2 percent slopes				
	95	Oshtemo	3s	—
OsB—Oshtemo sandy loam, 2 to 6 percent slopes				
	90	Oshtemo	3s	—
OsC—Oshtemo sandy loam, 6 to 12 percent slopes				
	85	Oshtemo	3e	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—
Pq—Pits, quarry				
	100	Pits, quarry	—	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
ReA--Ravenna silt loam, 0 to 2 percent slopes				
	95	Ravenna	2w	—
ReB--Ravenna silt loam, 2 to 6 percent slopes				
	95	Ravenna	2e	—
Rn--Ravenna-Urban land complex				
	65	Ravenna	—	—
	30	Urban land	—	—
RsB--Rittman silt loam, 2 to 6 percent slopes				
	85	Rittman	2e	—
RsC--Rittman silt loam, 6 to 12 percent slopes				
	95	Rittman	3e	—
RsC2--Rittman silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Rittman	3e	—
RsD--Rittman silt loam, 12 to 18 percent slopes				
	100	Rittman	4e	—
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				
	95	Rittman	6e	—
RtB--Rittman silt loam, sandstone substratum, 2 to 6 percent slopes				
	95	Rittman	2e	—
RtC--Rittman silt loam, sandstone substratum 6 to 12 percent slopes				
	90	Rittman	3e	—
RuB--Rittman-Urban land complex, undulating				
	70	Rittman	—	—
	30	Urban land	—	—
RuC--Rittman-Urban land complex, rolling				
	70	Rittman	—	—
	30	Urban land	—	—
Rv--Rough broken land, clay and silt				
	100	Rough broken land	—	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Rw--Rough broken land, silt and sand				
	100	Rough broken land	—	—
Sb--Sebring silt loam				
	85	Sebring	3w	—
Sc--Shale rock land				
	100	Shale rock land	—	—
Sh--Sebring silt loam, till substratum				
	100	Sebring	3w	—
So--Sloan silt loam				
	90	Sloan	3w	—
Tg--Tioga loam				
	100	Tioga	1	—
Tr--Trumbull silt loam, 0 to 2 percent slopes				
	90	Trumbull	4w	—
Ua--Udorthents				
	100	Udorthents	—	—
Uc--Udorthents, chemical waste				
	100	Udorthents, chemical waste	—	—
Ud--Udorthents, loamy				
	100	Udorthents	6s	—
Uf--Udorthents, sanitary landfill				
	100	Udorthents, sanitary landfill	—	—
Up--Udorthents-pits complex				
	50	Udorthents	—	—
	50	Pits	—	—
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				
	90	Wadsworth	3w	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Wb--Wadsworth-Urban land complex				
	65	Wadsworth	—	—
	30	Urban land	—	—
Wc--Walkkill silt loam				
	95	Walkkill	3w	—
WhB--Weinbach silt loam, 2 to 6 percent slopes				
	100	Weinbach	2e	—
WmC2--Wheeling loam, 6 to 12 percent slopes, moderately eroded				
	100	Wheeling	3e	—
WrA--Wheeling silt loam, 0 to 2 percent slopes				
	95	Wheeling	1	—
WrB--Wheeling silt loam, 2 to 6 percent slopes				
	95	Wheeling	2e	—
Wt--Willette muck				
	95	Willette	3w	—
WuB--Wooster silt loam, 2 to 6 percent slopes				
	85	Wooster	2e	—
WuC--Wooster silt loam, 6 to 12 percent slopes				
	95	Wooster	3e	—
WuC2--Wooster silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Wooster	3e	—
WuD--Wooster silt loam, 12 to 18 percent slopes				
	100	Wooster	4e	—
WuD2--Wooster silt loam, 12 to 18 percent, moderately eroded				
	100	Wooster	4e	—
WuE2--Wooster silt loam, 18 to 25 percent slopes, moderately eroded				
	90	Wooster	6e	—
WuF2--Wooster silt loam, 25 to 50 percent slopes, moderately eroded				
	95	Wooster	7e	—

Land Capability Classification--Summit County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WvC2—Wooster silt loam, sandstone substratum, 6 to 12 percent slopes, moderately eroded				
	100	Wooster	3e	—
WvD2—Wooster silt loam, sandstone substratum, 12 to 18 percent slopes, moderately eroded				
	100	Wooster	4e	—
WvD—Wooster-Urban land complex, hilly				
	70	Wooster	—	—
	30	Urban land	—	—
WxE2—Wooster silt loam, 12 to 25 percent slopes, moderately eroded				
	100	Wooster	6e	—
WyB—Wooster-Riddles silt loams, 2 to 6 percent slopes				
	45	Riddles	2e	—
	45	Wooster	2e	—
WyC—Wooster-Riddles silt loams, 6 to 12 percent slopes				
	45	Riddles	3e	—
	45	Wooster	3e	—
WyC2—Wooster-Riddles silt loams, 6 to 12 percent slopes, eroded				
	45	Riddles	3e	—
	45	Wooster	3e	—
WyD2—Wooster-Riddles silt loams, 12 to 18 percent slopes, eroded				
	45	Riddles	4e	—
	45	Wooster	4e	—

Data Source Information

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