

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—Cuyahoga County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
As—Allis silt loam				
	95	Allis	4w	—
At—Allis-Urban land complex				
	55	Allis	—	—
	30	Urban land	—	—
BgB—Bogart loam, 2 to 6 percent slopes				
	85	Bogart	2e	—
BhB—Bogart-Urban land complex, undulating				
	50	Bogart	—	—
	35	Urban land	—	—
BrF—Brecksville silt loam, 25 to 70 percent slopes				
	85	Brecksville	7e	—
Ca—Canadice silty clay loam				
	85	Canadice	4w	—
CcA—Caneadea silt loam, 0 to 2 percent slopes				
	85	Caneadea	3w	—
Cg—Carlisle silty clay loam				
	85	Carlisle	5w	—
Ch—Chagrin silt loam, occasionally flooded				
	85	Chagrin	2w	—
CnA—Chili loam, 0 to 2 percent slopes				
	85	Chili	2s	—
CnB—Chili loam, 2 to 6 percent slopes				
	85	Chili	2s	—
CnC—Chili loam, 6 to 12 percent slopes				
	85	Chili	2s	—
CoD—Chili gravelly loam, 12 to 18 percent slopes				
	85	Chili	2s	—

Land Capability Classification--Cuyahoga County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ct—Condit silty clay loam				
	85	Condit	3w	—
Cu—Condit-Urban land complex				
	50	Condit	—	—
	35	Urban land	—	—
DaA—Darren silt loam, 0 to 2 percent slopes				
	85	Darren	3w	—
DkF—DeKalb-Loudonville complex, 25 to 70 percent slopes				
	40	DeKalb	7e	—
	40	Loudonville	7e	—
Du—Dumps				
	100	Dumps	—	—
EIB—Ellsworth silt loam, 2 to 6 percent slopes				
	85	Ellsworth	2e	—
EIC—Ellsworth silt loam, 6 to 12 percent slopes				
	90	Ellsworth	3e	—
EID—Ellsworth silt loam, 12 to 18 percent slopes				
	90	Ellsworth	4e	—
EIF—Ellsworth silt loam, 25 to 70 percent slopes				
	85	Ellsworth	7e	—
EsC—Ellsworth-Urban land complex, 6 to 18 percent slopes				
	55	Ellsworth	3e	—
	30	Urban land	8	—
EuA—Euclid silt loam				
	85	Euclid	2w	—
FcA—Fitchville silt loam, 0 to 2 percent slopes				
	85	Fitchville	2w	—
FcB—Fitchville silt loam, 2 to 6 percent slopes				
	85	Fitchville	2w	—
GeF—Geeburg-Mentor silt loams, 25 to 70 percent slopes				
	50	Geeburg	7e	—
	35	Mentor	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GfB—Glenford silt loam, 2 to 6 percent slopes				
	85	Glenford	2e	—
GfC—Glenford silt loam, 6 to 12 percent slopes				
	85	Glenford	3e	—
HaA—Haskins loam, 0 to 2 percent slopes				
	85	Haskins	2w	—
HaB—Haskins loam, 2 to 6 percent slopes				
	85	Haskins	2e	—
HbA—Haskins-Urban land complex, nearly level				
	50	Haskins	—	—
	35	Urban land	—	—
Ho—Holly silt loam, frequently flooded				
	85	Holly	3w	—
HrB—Hornell silt loam, 2 to 6 percent slopes				
	85	Hornell	3w	—
HrC—Hornell silt loam, 6 to 12 percent slopes				
	85	Hornell	3e	—
HrD—Hornell silt loam, 12 to 18 percent slopes				
	85	Hornell	4e	—
HsC—Hornell-Urban land complex, rolling				
	55	Hornell	—	—
	35	Urban land	—	—
JtA—Jimtown loam, 0 to 3 percent slopes				
	85	Jimtown	2w	—
JuA—Jimtown-Urban land complex, nearly level				
	40	Jimtown	—	—
	30	Urban land	—	—
LoB—Loudonville silt loam, 2 to 6 percent slopes				
	85	Loudonville	2e	—
LoC—Loudonville silt loam, 6 to 12 percent slopes				
	85	Loudonville	3e	—

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			Nonirrigated	Irrigated
LoD—Loudonville silt loam, 12 to 18 percent slopes				
	85	Loudonville	4e	—
LuC—Loudonville-Urban land complex, rolling				
	50	Loudonville	—	—
	35	Urban land	—	—
MgA—Mahoning silt loam, 0 to 2 percent slopes				
	85	Mahoning	3w	—
MgB—Mahoning silt loam, 2 to 6 percent slopes				
	85	Mahoning	3w	—
MmB—Mahoning-Urban land complex, 2 to 6 percent slopes				
	45	Mahoning	3w	—
	30	Urban land	8	—
Mo—Mermill loam				
	85	Mermill	2w	—
Mr—Miner silty clay loam, 0 to 2 percent slopes				
	85	Miner	5w	—
MtA—Mitiwanga silt loam, 0 to 2 percent slopes				
	85	Mitiwanga	2w	—
MtB—Mitiwanga silt loam, 2 to 6 percent slopes				
	85	Mitiwanga	2e	—
MxB—Mitiwanga-Urban land complex, undulating				
	45	Mitiwanga	—	—
	35	Urban land	—	—
Or—Orrville silt loam, frequently flooded				
	85	Orrville	2w	—
OsA—Oshtemo sandy loam, 0 to 2 percent slopes				
	85	Oshtemo	3s	3s
OsB—Oshtemo sandy loam, 2 to 6 percent slopes				
	85	Oshtemo	3s	3e
OsF—Oshtemo sandy loam, 25 to 55 percent slopes				
	85	Oshtemo	7e	—

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			Nonirrigated	Irrigated
OtB—Oshtemo-Urban land complex, undulating				
	45	Oshtemo	—	3e
	40	Urban land	—	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—
Pt—Pits, quarry				
	100	Pits, quarry	—	—
RsB—Rittman silt loam, 2 to 6 percent slopes				
	85	Rittman	2e	—
RsC—Rittman silt loam, 6 to 12 percent slopes				
	85	Rittman	3e	—
Sb—Sebring silt loam				
	85	Sebring	3w	—
St—Stafford variant sandy loam				
	85	Stafford variant	2w	—
Tg—Tioga loam, frequently flooded				
	85	Tioga	2w	—
Th—Tioga variant loam				
	85	Tioga variant	1	—
Ua—Udorthents, loamy				
	100	Udorthents	6s	—
Ub—Urban land				
	100	Urban land	—	—
Uc—Urban land-Allis complex				
	70	Urbanland	—	—
	20	Allis	—	—
UeA—Urban land-Elnora complex, nearly level				
	70	Urban land	—	—
	20	Elnora	—	—
UmB—Urban land-Mahoning complex, 2 to 6 percent slopes				
	60	Urban land	8	—
	20	Mahoning	3w	—

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			Nonirrigated	Irrigated
UnB—Urban land-Mitiwanga complex, undulating				
	70	Urban land	—	—
	20	Mitiwanga	—	—
UoB—Urban land-Oshtemo complex, undulating				
	70	Urban land	—	—
	20	Oshtemo	—	3e
W—Water				
	100	Water	—	—
WaA—Wadsworth silt loam, 0 to 2 percent slopes				
	85	Wadsworth	3w	—
WaB—Wadsworth silt loam, 2 to 6 percent slopes				
	85	Wadsworth	3e	—

Data Source Information

Soil Survey Area: Cuyahoga County, Ohio
 Survey Area Data: Version 13, Sep 19, 2014