

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—Ashland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AdC2—Alexandria silt loam, 6 to 12 percent slopes, moderately eroded				
	90	Alexandria	3e	—
AdD2—Alexandria silt loam, 12 to 18 percent slopes, eroded				
	100	Alexandria	4e	—
AdE—Alexandria silt loam, 18 to 25 percent slopes				
	100	Alexandria	6e	—
AdF—Alexandria silt loam, 25 to 50 percent slopes				
	100	Alexandria	7e	—
AeD2—Alexandria silty clay loam, 12 to 18 percent slopes, eroded				
	80	Alexandria	4e	—
Ag—Algiers silt loam				
	85	Algiers	2w	—
AmE—Amanda loam, 18 to 25 percent slopes				
	90	Amanda	6e	—
BgB—Bogart loam, 2 to 6 percent slopes				
	85	Bogart	2e	—
BnA—Bennington silt loam, 0 to 2 percent slopes				
	90	Bennington	2w	—
BnB—Bennington silt loam, 2 to 6 percent slopes				
	90	Bennington	2e	—
BnB2—Bennington silt loam, 2 to 6 percent slopes, moderately eroded				
	90	Bennington	3e	—
BoA—Bennington-Tiro silt loams, 0 to 2 percent slopes				
	50	Bennington	2w	—
	30	Tiro	2w	—

Land Capability Classification--Ashland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BrD—Berks channery silt loam, 12 to 18 percent slopes				
	100	Berks	4e	—
BsG—Berks-Rock outcrop complex, 30 to 60 percent slopes				
	70	Berks	7e	—
	10	Rock outcrop	—	—
BtA—Bogart gravelly loam, 0 to 2 percent slopes				
	100	Bogart	2s	—
BtB—Bogart gravelly loam, 2 to 6 percent slopes				
	100	Bogart	2e	—
BvA—Bogart silt loam, 0 to 2 percent slopes				
	100	Bogart	1	—
BvB—Bogart silt loam, 2 to 6 percent slopes				
	100	Bogart	2e	—
BxF—Brownsville-Rock outcrop complex, 35 to 70 percent slopes				
	70	Brownsville	7e	—
	20	Rock outcrop	—	—
ByD—Brownsville channery silt loam, 15 to 25 percent slopes				
	85	Brownsville	4e	—
ByE—Brownsville channery silt loam, 25 to 35 percent slopes				
	85	Brownsville	6e	—
BzE—Brownsville-Westmoreland complex, 18 to 25 percent slopes				
	60	Brownsville	4e	—
	30	Westmoreland	4e	—
BzF—Brownsville-Westmoreland complex, 25 to 40 percent slopes				
	60	Brownsville	6e	—
	30	Westmoreland	6e	—
CaB—Canfield silt loam, 2 to 6 percent slopes				
	90	Canfield	2e	—
CaC—Canfield silt loam, 6 to 12 percent slopes				
	90	Canfield	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CaC2—Canfield silt loam, 6 to 12 percent slopes, eroded				
	90	Canfield, eroded	3e	—
CdB—Cardington silt loam, 2 to 6 percent slopes				
	95	Cardington	2e	—
CdB2—Cardington silt loam, 2 to 6 percent slopes, eroded				
	95	Cardington	2e	—
CdC—Cardington silt loam, 6 to 12 percent slopes				
	95	Cardington	3e	—
CdC2—Cardington silt loam, 6 to 12 percent slopes, eroded				
	95	Cardington	3e	—
CeC3—Cardington silty clay loam, 6 to 12 percent slopes, severely eroded				
	100	Cardington	4e	—
Cf—Carlisle muck				
	100	Carlisle	3w	—
CgA—Chili loam, 0 to 2 percent slopes				
	90	Chili	2s	—
CgB—Chili loam, 2 to 6 percent slopes				
	100	Chili	2e	—
CgC—Chili loam, 6 to 12 percent slopes				
	100	Chili	3e	—
CgC2—Chili loam, 6 to 12 percent slopes, eroded				
	90	Chili	3e	—
CgD2—Chili loam, 12 to 18 percent slopes, eroded				
	90	Chili	4e	—
ChC—Chili-Wooster complex, 6 to 12 percent slopes				
	50	Chili	3e	—
	30	Wooster	3e	—

Land Capability Classification--Ashland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
ChD—Chili-Wooster complex, 12 to 18 percent slopes				
	50	Chili	4e	—
	30	Wooster	4e	—
ChE—Chili-Wooster complex, 18 to 25 percent slopes				
	45	Chili	6e	—
	35	Wooster	6e	—
CkD—Chili and Conotton gravelly loams, 12 to 18 percent slopes				
	50	Chili	4e	—
	50	Conotton	6e	—
CkE—Chili and Conotton gravelly loams, 18 to 35 percent slopes				
	50	Conotton	7e	—
	50	Chili	7e	—
CIC—Chili gravelly loam, 6 to 12 percent slopes				
	85	Chili	3e	—
CID2—Chili gravelly loam, 12 to 25 percent slopes, eroded				
	90	Chili	4e	—
CmA—Cidermill silt loam, 0 to 2 percent slopes				
	85	Cidermill	1	—
CmB—Cidermill silt loam, 2 to 6 percent slopes				
	85	Cidermill	2e	—
Cn—Condit silty clay loam				
	90	Condit	3w	—
CoD—Chili and Conotton soils, 12 to 18 percent slopes				
	49	Chili	6e	—
	49	Conotton	6e	—
CoE—Chili and Conotton soils, 18 to 25 percent slopes				
	49	Conotton	7e	—
	49	Chili	7e	—
CpB—Chili silt loam, 2 to 6 percent slopes				
	90	Chili	2e	—

Land Capability Classification--Ashland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Cr—Condit silt loam, 0 to 1 percent slopes				
	90	Condit	3w	—
CsC—Conotton gravelly loam, 2 to 12 percent slopes				
	100	Conotton	4e	—
CtD—Conotton Variant gravelly loam, 10 to 20 percent slopes				
	90	Conotton variant	6e	—
CuE—Chili-Amanda complex, 18 to 25 percent slopes				
	50	Chili	6e	—
	40	Amanda	6e	—
CvB—Coshocton loam, 2 to 6 percent slopes				
	100	Coshocton	2e	—
CvC—Coshocton loam, 6 to 15 percent slopes				
	100	Coshocton	3e	—
CxB—Coshocton silt loam, 2 to 6 percent slopes				
	85	Coshocton	2e	—
CxC2—Coshocton silt loam, 6 to 15 percent slopes, eroded				
	85	Coshocton	3e	—
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	—
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	—
FbA—Fitchville silt loam, 0 to 2 percent slopes				
	90	Fitchville	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FbB—Fitchville silt loam, 2 to 6 percent slopes				
	95	Fitchville	2e	—
FcA—Fitchville silt loam, 1 to 4 percent slopes				
	90	Fitchville	2w	—
FgA—Fitchville silt loam, gravelly subsoil variant, 0 to 2 percent slopes				
	95	Fitchville variant	2w	—
Fr—Frenchtown silt loam				
	100	Frenchtown	3w	—
GaB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GaC—Gilpin silt loam, 6 to 12 percent slopes				
	80	Gilpin	3e	—
GbC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GfA—Glenford silt loam, 0 to 2 percent slopes				
	100	Glenford	1	—
GfB—Glenford silt loam, 2 to 6 percent slopes				
	100	Glenford	2e	—
GfC—Glenford silt loam, 6 to 12 percent slopes				
	100	Glenford	3e	—
HaA—Haskins silt loam, 0 to 3 percent slopes				
	90	Haskins	2w	—
HkA—Haskins loam, 0 to 3 percent slopes				
	80	Haskins	2w	—
Ho—Holly silt loam				
	95	Holly	3w	—
JmA—Jimtown loam, 0 to 3 percent slopes				
	80	Jimtown	2w	—
JoB—Jimtown loam, 2 to 6 percent slopes				
	90	Jimtown	2e	—
JwA—Jimtown silt loam, 0 to 2 percent slopes				
	95	Jimtown	2w	—
JwB—Jimtown silt loam, 2 to 6 percent slopes				
	95	Jimtown	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Kb—Killbuck silt loam				
	100	Killbuck	3w	—
LfB—Latham silt loam, 2 to 6 percent slopes				
	100	Latham	3e	—
Ln—Linwood muck				
	100	Linwood	2w	—
Lo—Lobdell silt loam				
	95	Lobdell	2w	—
LtB—Lordstown silt loam, 2 to 6 percent slopes				
	100	Lordstown	2e	—
LtC—Lordstown silt loam, 6 to 12 percent slopes				
	100	Lordstown	3e	—
LtD—Lordstown silt loam, 12 to 18 percent slopes				
	100	Lordstown	4e	—
LtE—Lordstown silt loam, 18 to 25 percent slopes				
	100	Lordstown	6e	—
LtF—Lordstown silt loam, 25 to 40 percent slopes				
	100	Lordstown	6e	—
LuE—Lordstown and Loudonville silt loams, 18 to 25 percent slopes				
	45	Loudonville	6e	—
	45	Lordstown	4e	—
LvB—Loudonville silt loam, 2 to 6 percent slopes				
	100	Loudonville	2e	—
LvC—Loudonville silt loam, 6 to 12 percent slopes				
	100	Loudonville	3e	—
LvD—Loudonville silt loam, 12 to 18 percent slopes				
	100	Loudonville	4e	—
LvE—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
Ly—Luray silty clay loam				
	100	Luray	2w	—
LzB—Lykens silt loam, 2 to 6 percent slopes				
	95	Lykens	2e	—
MaA—Mahoning silt loam, 0 to 2 percent slopes				
	85	Mahoning	3w	—
MaB—Mahoning silt loam, 2 to 6 percent slopes				
	85	Mahoning	3w	—
MaB2—Mahoning silt loam, 2 to 6 percent slopes, eroded				
	85	Mahoning, eroded	3w	—
MeC2—Mechanicsburg silt loam, 6 to 12 percent slopes, eroded				
	85	Mechanicsburg	3e	—
Om—Orrville silt loam, frequently flooded				
	90	Orrville	2w	—
Or—Orrville silt loam, occasionally flooded				
	85	Orrville	2w	—
Os—Orrville Variant silt loam				
	100	Orrville variant	2w	—
OtB—Oshtemo sandy loam, 2 to 6 percent slopes				
	100	Oshtemo	3s	3e
OtC—Oshtemo sandy loam, 6 to 12 percent slopes				
	100	Oshtemo	3e	3e
OvB—Oshtemo fine sandy loam, 2 to 6 percent slopes				
	85	Oshtemo	3s	3e
Pc—Pewamo silty clay loam				
	100	Pewamo	2w	—
Pg—Pits, gravel				
	100	Pits	—	—
RnA—Ravenna silt loam, 0 to 2 percent slopes				
	95	Ravenna	2w	—
RnB—Ravenna silt loam, 2 to 6 percent slopes				
	95	Ravenna	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RoB—Rawson loam, 2 to 6 percent slopes				
	90	Rawson	2e	—
RrC—Rigley sandy loam, 6 to 12 percent slopes				
	100	Rigley	3e	—
RsB—Rittman silt loam, 2 to 6 percent slopes				
	95	Rittman	2e	—
RsB2—Rittman silt loam, 2 to 6 percent slopes, eroded				
	95	Rittman	2e	—
RsC—Rittman silt loam, 6 to 12 percent slopes				
	95	Rittman	3e	—
RsC2—Rittman silt loam, 6 to 12 percent slopes, eroded				
	95	Rittman	3e	—
RsD2—Rittman silt loam, 12 to 18 percent slopes, eroded				
	95	Rittman	4e	—
SaD—Schaffemaker loamy sand, 12 to 25 percent slopes				
	95	Schaffemaker	6s	—
ScE—Schaffemaker loamy sand, 10 to 40 percent slopes				
	100	Schaffemaker	4s	—
Sg—Sebring silt loam				
	100	Sebring	3w	—
Sh—Shoals silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Shoals	2w	—
Sk—Shoals loam, coarse subsoil variant				
	95	Shoals variant	2w	—
Sn—Sloan silty clay loam				
	95	Sloan	3w	—
TkA—Tiro silt loam, 0 to 2 percent slopes				
	85	Tiro	2w	—
ToA—Tiro silt loam, 1 to 4 percent slopes				
	85	Tiro	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
TvC—Titusville silt loam, 6 to 12 percent slopes				
	95	Titusville	3e	—
TyA—Trumbull silty clay loam, 0 to 2 percent slopes				
	90	Trumbull	4w	—
Ud—Udorthents				
	100	Udorthents	—	—
Ur—Urban land				
	100	Urban land	—	—
W—Water				
	100	Water	—	—
WaA—Wadsworth silt loam, 0 to 2 percent slopes				
	95	Wadsworth	3w	—
WaB—Wadsworth silt loam, 2 to 6 percent slopes				
	95	Wadsworth	3e	—
Wb—Walkkill silt loam				
	100	Walkkill	3w	—
WcC2—Wooster-Chili complex, 6 to 12 percent slopes, eroded				
	60	Wooster	3e	—
	30	Chili	3e	—
WcD2—Wooster-Chili complex, 12 to 18 percent slopes, eroded				
	60	Wooster	4e	—
	30	Chili	4e	—
WeD—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—
WhA—Wheeling silt loam, 0 to 2 percent slopes				
	100	Wheeling	1	—
WhB—Wheeling silt loam, 2 to 6 percent slopes				
	100	Wheeling	2e	—
WhC—Wheeling silt loam, 6 to 12 percent slopes				
	100	Wheeling	3e	—

Land Capability Classification--Ashland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WsB—Wooster silt loam, 2 to 6 percent slopes				
	100	Wooster	2e	—
WsC—Wooster silt loam, 6 to 12 percent slopes				
	100	Wooster	3e	—
WsC2—Wooster silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Wooster	3e	—
WsD2—Wooster silt loam, 12 to 18 percent slopes, eroded				
	100	Wooster	4e	—
WsE—Wooster silt loam, 18 to 35 percent slopes				
	100	Wooster	6e	—
WtE—Wooster silt loam, 18 to 25 percent slopes				
	85	Wooster	6e	—
WuB—Wooster-Riddles silt loams, 2 to 6 percent slopes				
	45	Riddles	2e	—
	45	Wooster	2e	—
WuC—Wooster-Riddles silt loams, 6 to 12 percent slopes				
	45	Riddles	3e	—
	45	Wooster	3e	—
WuD2—Wooster-Riddles silt loams, 12 to 18 percent slopes, eroded				
	45	Riddles	4e	—
	45	Wooster	4e	—

Data Source Information

Soil Survey Area: Ashland County, Ohio
 Survey Area Data: Version 12, Sep 19, 2014