

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—Columbiana County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AmF—Amanda loam, 35 to 70 percent slopes				
	95	Amanda	7e	—
BkB—Berks channery silt loam, 3 to 8 percent slopes				
	85	Berks	2e	—
BkC—Berks channery silt loam, 8 to 15 percent slopes				
	85	Berks	3e	—
BkD—Berks channery silt loam, 15 to 25 percent slopes				
	85	Berks	4e	—
BkE—Berks channery silt loam, 25 to 35 percent slopes				
	85	Berks	6e	—
BmB—Berks-Urban land complex, 2 to 6 percent slopes				
	50	Berks	—	—
	40	Urban land	—	—
BmC—Berks-Urban land complex, 6 to 15 percent slopes				
	50	Berks	—	—
	40	Urban land	—	—
BmD—Berks-Urban land complex, 15 to 25 percent slopes				
	50	Berks	—	—
	40	Urban land	—	—
BpF—Bethesda very channery silt loam, 25 to 70 percent slopes				
	85	Bethesda	7e	—
BsC2—Bogart loam, 6 to 12 percent slopes, eroded				
	80	Bogart	3e	—
BtA—Bogart silt loam, 0 to 2 percent slopes				
	80	Bogart	1	—

Land Capability Classification--Columbiana County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BtB—Bogart silt loam, 2 to 6 percent slopes				
	80	Bogart	2e	—
BtC—Bogart silt loam, 6 to 12 percent slopes				
	80	Bogart	3e	—
BtF4F1—Bethesda and Fairpoint channery silt loams, 25 to 70 percent slopes				
	60	Bethesda, unreclaimed	7e	—
	40	Fairpoint, reclaimed	7e	—
CaA—Calcutta silt loam, 0 to 3 percent slopes				
	80	Calcutta	2w	—
CcB—Canfield silt loam, 2 to 6 percent slopes				
	90	Canfield	2e	—
CcC—Canfield silt loam, 6 to 12 percent slopes				
	90	Canfield	3e	—
CcD—Canfield silt loam, 12 to 20 percent slopes				
	90	Canfield	4e	—
CcE—Canfield silt loam, 20 to 35 percent slopes				
	90	Canfield	6e	—
CeA—Carlisle muck, 0 to 1 percent slopes				
	90	Carlisle	5w	—
CfD2—Chili loam, 12 to 20 percent slopes, eroded				
	90	Chili	4e	—
ChA—Chili silt loam, 0 to 2 percent slopes				
	90	Chili	2s	—
ChB—Chili silt loam, 2 to 6 percent slopes				
	90	Chili	2e	—
ChC—Chili silt loam, 6 to 12 percent slopes				
	90	Chili	3e	—
CmB—Conotton gravelly loam, 2 to 6 percent slopes				
	90	Conotton	3s	—
CmC—Conotton gravelly loam, 6 to 12 percent slopes				
	90	Conotton	4e	—

Land Capability Classification--Columbiana County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CoB—Coshocton silt loam, 2 to 6 percent slopes				
	90	Coshocton	2e	—
CoC—Coshocton silt loam, 6 to 15 percent slopes				
	85	Coshocton	3e	—
CoD—Coshocton silt loam, 15 to 25 percent slopes				
	85	Coshocton	4e	—
DAM—Dam				
	100	Dam	—	—
DgA—Doles silt loam, 0 to 3 percent slopes				
	90	Doles	2w	—
ErC—Ernest silt loam, 6 to 15 percent slopes				
	80	Ernest	3e	—
ErD—Ernest silt loam, 15 to 25 percent slopes				
	80	Ernest	4e	—
FbB—Fairpoint very channery silt loam, 0 to 8 percent slopes				
	90	Fairpoint	4s	—
FbD—Fairpoint very channery silt loam, 8 to 25 percent slopes				
	85	Fairpoint	6s	—
FbF—Fairpoint very channery silt loam, 25 to 70 percent slopes				
	85	Fairpoint	7e	—
FcB—Fairpoint silty clay loam, 0 to 8 percent slopes				
	90	Fairpoint	3s	—
FcD—Fairpoint silty clay loam, 8 to 25 percent slopes				
	90	Fairpoint	4s	—
FdA—Fitchville silt loam, 0 to 2 percent slopes				
	90	Fitchville	2w	—
FdB—Fitchville silt loam, 2 to 6 percent slopes				
	85	Fitchville	2e	—
FeA—Fluvaquents, silty, 0 to 1 percent slopes, frequently flooded				
	100	Fluvaquents, silty	5w	—

Land Capability Classification--Columbiana County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FnC2—Fredericktown gravelly loam, 6 to 15 percent slopes, eroded				
	90	Fredericktown	3e	—
FnD2—Fredericktown gravelly loam, 15 to 25 percent slopes, eroded				
	90	Fredericktown	4e	—
FoB—Fredericktown silt loam, 2 to 6 percent slopes				
	90	Fredericktown	2e	—
Fpt4B1—Fairpoint channery silt loam, 0 to 8 percent slopes				
	95	Fairpoint, reclaimed	3s	—
Fpt4D1—Fairpoint channery silt loam, 8 to 25 percent slopes				
	95	Fairpoint, reclaimed	4e	—
FrA—Frenchtown silt loam, 0 to 2 percent slopes				
	100	Frenchtown	3w	—
GaB—Gavers silt loam, 2 to 6 percent slopes				
	90	Gavers	2e	—
GeC—Germano fine sandy loam, 6 to 15 percent slopes				
	85	Germano	3e	—
GeD—Germano fine sandy loam, 15 to 25 percent slopes				
	85	Germano	4e	—
GnB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GnC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GnD—Gilpin silt loam, 15 to 25 percent slopes				
	85	Gilpin	4e	—
GoC—Gilpin-Coshocton silt loams, 6 to 15 percent slopes				
	55	Gilpin	3e	—
	30	Coshocton	3e	—

Land Capability Classification--Columbiana County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GoD—Gilpin-Coshocton silt loams, 15 to 25 percent slopes				
	55	Gilpin	4e	—
	30	Coshocton	4e	—
GpC—Gilpin-Coshocton-Urban land complex, 6 to 15 percent slopes				
	40	Gilpin	—	—
	30	Coshocton	—	—
	20	Urban land	—	—
GrB—Glenford silt loam, 2 to 6 percent slopes				
	95	Glenford	2e	—
GrC—Glenford silt loam, 6 to 12 percent slopes				
	95	Glenford	3e	—
GuC—Guernsey silt loam, 6 to 15 percent slopes				
	90	Guernsey	3e	—
GuC2—Guernsey silt loam, 6 to 15 percent slopes, eroded				
	90	Guernsey	3e	—
GuD—Guernsey silt loam, 15 to 25 percent slopes				
	85	Guernsey	4e	—
HeB—Hazleton channery loam, 2 to 6 percent slopes				
	85	Hazleton	2e	—
HeC—Hazleton channery loam, 6 to 15 percent slopes				
	85	Hazleton	3e	—
HeD—Hazleton channery loam, 15 to 25 percent slopes				
	85	Hazleton	4e	—
HeE—Hazleton channery loam, 25 to 40 percent slopes				
	90	Hazleton	6e	—
HfF—Hazleton-Rock outcrop complex, 40 to 70 percent slopes				
	65	Hazleton	7e	—
	25	Rock outcrop	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HgF—Hazleton-Westmoreland channery loams, 40 to 70 percent slopes				
	55	Hazleton	7e	—
	35	Westmoreland	7e	—
HkA—Holly silt loam, 0 to 2 percent slopes, frequently flooded				
	95	Holly	3w	—
HIB—Homewood silt loam, 2 to 6 percent slopes				
	90	Homewood	2e	—
HmA—Homeworth loam, 0 to 2 percent slopes				
	90	Homeworth	2w	—
HmB—Homeworth loam, 2 to 6 percent slopes				
	90	Homeworth	2e	—
HoA—Homeworth silt loam, 0 to 2 percent slopes				
	90	Homeworth	2w	—
HoB—Homeworth silt loam, 2 to 6 percent slopes				
	90	Homeworth	2e	—
JwA—Jimtown silt loam, 0 to 2 percent slopes				
	80	Jimtown	2w	—
JwB—Jimtown silt loam, 2 to 6 percent slopes				
	80	Jimtown	2e	—
KeB—Keene silt loam, 3 to 8 percent slopes				
	90	Keene	2e	—
KnB—Kensington silt loam, 2 to 6 percent slopes				
	85	Kensington	2e	—
KnC—Kensington silt loam, 6 to 15 percent slopes				
	85	Kensington	3e	—
KnD—Kensington silt loam, 15 to 25 percent slopes				
	90	Kensington	4e	—
LbA—Lobdell silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Lobdell	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LnA—Lorain silt loam, 0 to 2 percent slopes				
	80	Lorain	3w	—
McB—Mechanicsburg silt loam, 2 to 6 percent slopes				
	90	Mechanicsburg	2e	—
McC—Mechanicsburg silt loam, 6 to 15 percent slopes				
	90	Mechanicsburg	3e	—
MnB—Morristown silty clay loam, 0 to 8 percent slopes				
	90	Morristown	3s	—
MnD—Morristown silty clay loam, 8 to 25 percent slopes				
	85	Morristown	4s	—
MoB—Morristown channery silty clay loam, 0 to 8 percent slopes				
	90	Morristown	4s	—
MoD—Morristown channery silty clay loam, 8 to 25 percent slopes				
	85	Morristown	6s	—
OdA—Olmsted and Valley soils, 0 to 2 percent slopes				
	45	Olmsted	3w	—
	35	Valley	3w	—
OmB—Omulga silt loam, 2 to 6 percent slopes				
	90	Omulga	2e	—
OmC—Omulga silt loam, 6 to 12 percent slopes				
	90	Omulga	3e	—
OrA—Orrville silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Orrville	2w	—
Pg—Pits, gravel				
	85	Pits, gravel	—	—
RaB—Rainsboro silt loam, 2 to 6 percent slopes				
	85	Rainsboro	2e	—
RaC2—Rainsboro silt loam, 6 to 12 percent slopes, eroded				
	80	Rainsboro	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RbC—Rainsboro silt loam, 6 to 12 percent slopes, stony				
	80	Rainsboro	3e	—
ReA—Ravenna silt loam, 0 to 2 percent slopes				
	90	Ravenna	2w	—
ReB—Ravenna silt loam, 2 to 6 percent slopes				
	90	Ravenna	2e	—
RhD—Richland silt loam, 15 to 25 percent slopes, stony				
	85	Richland	4e	—
RhE—Richland silt loam, 25 to 40 percent slopes, stony				
	85	Richland	6e	—
RsB—Rittman silt loam, 2 to 6 percent slopes				
	90	Rittman	2e	—
RsC—Rittman silt loam, 6 to 12 percent slopes				
	90	Rittman	3e	—
RsD2—Rittman silt loam, 12 to 20 percent slopes, eroded				
	90	Rittman	4e	—
TeB—Teegarden silt loam, 2 to 6 percent slopes				
	90	Teegarden	2e	—
TeC—Teegarden silt loam, 6 to 15 percent slopes				
	90	Teegarden	3e	—
TeC2—Teegarden silt loam, 6 to 15 percent slopes, eroded				
	90	Teegarden	3e	—
ToA—Tioga loam, 0 to 2 percent slopes, occasionally flooded				
	90	Tioga	1	—
Ua—Udorthents, loamy, 2 to 25 percent slopes				
	85	Udorthents, loamy	—	—
Ub—Udorthents, refuse substratum, 2 to 25 percent slopes				
	90	Udorthents, refuse substratum	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Uc—Udorthents-Pits complex, 0 to 70 percent slopes				
	60	Udorthents	—	—
	30	Pits	—	—
UkC2—Upshur-Berks complex, 6 to 15 percent slopes, eroded				
	70	Upshur	4e	—
	20	Berks	3e	—
UkD2—Upshur-Berks complex, 15 to 25 percent slopes, eroded				
	70	Upshur	6e	—
	20	Berks	4e	—
UkE2—Upshur-Berks complex, 25 to 40 percent slopes, eroded				
	70	Upshur	7e	—
	20	Berks	6e	—
Ur—Urban land, 0 to 15 percent slopes				
	90	Urban land	—	—
UtB—Urban land-Canfield complex, 2 to 6 percent slopes				
	60	Urban land	8	—
	30	Canfield	2e	—
UtC—Urban land-Canfield complex, 6 to 12 percent slopes				
	60	Urban land	8	—
	30	Canfield	3e	—
UvB—Urban land-Chili complex, 2 to 6 percent slopes				
	60	Urban land	—	—
	30	Chili	—	—
VaA—Valley silt loam, 0 to 2 percent slopes				
	80	Valley	3w	—
VbA—Valley silty clay loam, 0 to 2 percent slopes				
	80	Valley	3w	—
VcA—Valley-Lorain silt loams, 0 to 2 percent slopes				
	45	Valley	3w	—
	35	Lorain	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
VnB—Vandergrift silt loam, 2 to 6 percent slopes				
	90	Vandergrift	2e	—
VnC—Vandergrift silt loam, 6 to 15 percent slopes				
	90	Vandergrift	3e	—
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	3e	—
WkE—Westmoreland-Berks complex, 25 to 40 percent slopes				
	55	Westmoreland	6e	—
	35	Berks	6e	—
WkF—Westmoreland-Berks complex, 40 to 70 percent slopes				
	55	Westmoreland	7e	—
	35	Berks	7e	—
WmC—Westmoreland-Coshocton silt loams, 8 to 15 percent slopes				
	55	Westmoreland	3e	—
	30	Coshocton	3e	—
WmD—Westmoreland-Coshocton silt loams, 15 to 25 percent slopes				
	55	Westmoreland	4e	—
	30	Coshocton	4e	—
WoA—Wick silt loam, 0 to 2 percent slopes, frequently flooded				
	90	Wick	5w	—
ZeA—Zepernick silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Zepernick	2w	—

Data Source Information

Soil Survey Area: Columbiana County, Ohio
Survey Area Data: Version 12, Sep 18, 2014