

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—Holmes County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AmE—Amanda loam, 18 to 25 percent slopes				
	90	Amanda	6e	—
AwB—Amanda-Wooster complex, 2 to 6 percent slopes				
	50	Amanda	2e	—
	40	Wooster	2e	—
AwC2—Amanda-Wooster complex, 6 to 12 percent slopes, eroded				
	50	Amanda	3e	—
	40	Wooster	3e	—
AwD2—Amanda-Wooster complex, 12 to 18 percent slopes, eroded				
	50	Amanda	4e	—
	40	Wooster	4e	—
BeF—Berks silt loam, 25 to 70 percent slopes				
	85	Berks	7e	—
BkD—Berks silt loam, 15 to 25 percent slopes, very stony				
	85	Berks	6s	—
BkE—Berks silt loam, 25 to 35 percent slopes, very stony				
	85	Berks	7s	—
BkF—Berks silt loam, 35 to 70 percent slopes, very stony				
	85	Berks	7s	—
BID—Bethesda channery loam, 8 to 25 percent slopes				
	85	Bethesda	6s	—
BIF—Bethesda channery loam, 25 to 70 percent slopes				
	85	Bethesda	7e	—
BmF—Bethesda channery clay loam, 25 to 70 percent slopes				
	85	Bethesda	7e	—

Land Capability Classification--Holmes County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BnB—Bethesda very channery clay loam, 0 to 8 percent slopes				
	90	Bethesda	6s	—
BnC—Bethesda very channery clay loam, 8 to 20 percent slopes				
	95	Bethesda	6s	—
BnF—Bethesda very channery clay loam, 20 to 70 percent slopes				
	90	Bethesda	7e	—
BoB—Bogart gravelly loam, 2 to 6 percent slopes				
	100	Bogart	2e	—
BtA—Bogart silt loam, 0 to 2 percent slopes				
	90	Bogart	1	—
BtB—Bogart silt loam, 2 to 6 percent slopes				
	90	Bogart	2e	—
BvD—Brownsville channery silt loam, 15 to 25 percent slopes				
	85	Brownsville	4e	—
BvE—Brownsville channery silt loam, 25 to 35 percent slopes				
	85	Brownsville	6e	—
BvF—Brownsville channery silt loam, 35 to 70 percent slopes				
	85	Brownsville	7e	—
ByF—Brownsville-Rock outcrop complex, 35 to 70 percent slopes				
	70	Brownsville	7e	—
	20	Rock outcrop	—	—
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	—
CdA—Canfield silt loam, 0 to 2 percent slopes				
	85	Canfield	2w	—

Land Capability Classification--Holmes County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
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--Carlisle muck				
	90	Carlisle	3w	—
CgB--Centerburg silt loam, 2 to 6 percent slopes				
	85	Centerburg	2e	—
CgC2--Centerburg silt loam, 6 to 12 percent slopes, eroded				
	85	Centerburg	3e	—
CkC--Chili gravelly loam, 6 to 12 percent slopes				
	85	Chili	3e	—
CkD--Chili gravelly loam, 12 to 18 percent slopes				
	85	Chili	4e	—
CkE--Chili gravelly loam, 18 to 25 percent slopes				
	80	Chili	6e	—
CkF--Chili gravelly loam, 25 to 70 percent slopes				
	90	Chili	7e	—
CnA--Chili loam, 0 to 2 percent slopes				
	90	Chili	2s	—
CnB--Chili loam, 2 to 6 percent slopes				
	90	Chili	2e	—
CnC2--Chili loam, 6 to 12 percent slopes, eroded				
	90	Chili	3e	—
CnD2--Chili loam, 12 to 18 percent slopes, eroded				
	90	Chili	4e	—
CnE--Chili loam, 18 to 25 percent slopes				
	90	Chili	6e	—

Land Capability Classification--Holmes County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CnF—Chili loam, 25 to 70 percent slopes				
	90	Chili	7e	—
CoE—Chili-Amanda complex, 18 to 25 percent slopes				
	50	Chili	6e	—
	40	Amanda	6e	—
CpA—Cidermill silt loam, 0 to 2 percent slopes				
	85	Cidermill	1	—
CpB—Cidermill silt loam, 2 to 6 percent slopes				
	85	Cidermill	2e	—
CrD—Chili and Conotton gravelly loams, 12 to 18 percent slopes				
	50	Chili	4e	—
	50	Conotton	6e	—
CrE—Chili and Conotton gravelly loams, 18 to 35 percent slopes				
	50	Chili	7e	—
	50	Conotton	7e	—
CsC—Chili-Wooster complex, 6 to 12 percent slopes				
	50	Chili	3e	—
	30	Wooster	3e	—
CsD—Chili-Wooster complex, 12 to 18 percent slopes				
	50	Chili	4e	—
	30	Wooster	4e	—
CtB—Coshocton silt loam, 2 to 6 percent slopes				
	85	Coshocton	2e	—
CtC2—Coshocton silt loam, 6 to 15 percent slopes, eroded				
	85	Coshocton	3e	—
CtD—Coshocton silt loam, 15 to 25 percent slopes				
	85	Coshocton	4e	—
CtD2—Coshocton silt loam, 15 to 25 percent slopes, eroded				
	85	Coshocton	4e	—

Land Capability Classification--Holmes County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CtE—Coshocton silt loam, 25 to 35 percent slopes				
	85	Coshocton	6e	—
CuD—Coshocton silt loam, 15 to 25 percent slopes, very stony				
	85	Coshocton	6s	—
CvD—Coshocton silt loam, 12 to 25 percent slopes, very stony				
	85	Coshocton	6s	—
CwD—Coshocton-Guernsey silt loams, 15 to 25 percent slopes				
	60	Coshocton	4e	—
	30	Guernsey	4e	—
CwE—Coshocton-Guernsey silt loams, 25 to 40 percent slopes				
	60	Coshocton	6e	—
	30	Guernsey	6e	—
CxD—Coshocton-Guernsey very stony silt loams, 15 to 25 percent slopes				
	55	Coshocton	6s	—
	30	Guernsey	6s	—
CzD—Coshocton-Westmoreland complex, 15 to 25 percent slopes				
	50	Coshocton	4e	—
	30	Westmoreland	4e	—
EuA—Euclid silt loam, occasionally flooded				
	90	Euclid	2w	—
FaB—Fairpoint silt loam, 0 to 8 percent slopes				
	100	Fairpoint	3s	—
FaC—Fairpoint silt loam, 8 to 20 percent slopes				
	100	Fairpoint	4s	—
FcB—Farmerstown silt loam, 0 to 8 percent slopes				
	100	Farmerstown	3e	—
FcC—Farmerstown silt loam, 8 to 20 percent slopes				
	100	Farmerstown	4e	—
FhA—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
FhB—Fitchville silt loam, 2 to 6 percent slopes				
	85	Fitchville	2e	—
GeB—Gilpin silt loam, 2 to 6 percent slopes				
	90	Gilpin	2e	—
GeC—Gilpin silt loam, 6 to 15 percent slopes				
	85	Gilpin	3e	—
GhB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GhC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GnA—Glenford silt loam, 0 to 2 percent slopes				
	90	Glenford	1	—
GnB—Glenford silt loam, 2 to 6 percent slopes				
	90	Glenford	2e	—
GnC2—Glenford silt loam, 6 to 12 percent slopes, eroded				
	90	Glenford	3e	—
GpC—Glenford silt loam, 6 to 15 percent slopes				
	85	Glenford	3e	—
HeC—Hazleton channery loam, 8 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				
	85	Hazleton	6e	—
HkF—Hazleton channery sandy loam, 25 to 70 percent slopes, very bouldery				
	85	Hazleton	7s	—
HtC—Hazleton loam, 8 to 15 percent slopes				
	90	Hazleton	3e	—
HtD—Hazleton loam, 15 to 25 percent slopes				
	90	Hazleton	4e	—
HtE—Hazleton loam, 25 to 40 percent slopes				
	85	Hazleton	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HvF--Hazleton loam, 25 to 70 percent slopes, very bouldery				
	85	Hazleton	7s	—
KeB--Keene silt loam, 3 to 8 percent slopes				
	90	Keene	2e	—
Kk--Killbuck silt loam, frequently flooded				
	90	Killbuck	3w	—
Lo--Lobdell silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Lobdell	2w	—
LvB--Loudonville silt loam, 2 to 6 percent slopes				
	90	Loudonville	2e	—
LvC--Loudonville silt loam, 6 to 12 percent slopes				
	90	Loudonville	3e	—
LvD--Loudonville silt loam, 12 to 18 percent slopes				
	90	Loudonville	4e	—
LvE--Loudonville silt loam, 18 to 25 percent slopes				
	90	Loudonville	6e	—
Ly--Luray silty clay loam				
	90	Luray	2w	—
McC--Mechanicsburg silt loam, 6 to 12 percent slopes				
	90	Mechanicsburg	3e	—
McC2--Mechanicsburg silt loam, 6 to 12 percent slopes, eroded				
	85	Mechanicsburg	3e	—
McD--Mechanicsburg silt loam, 12 to 18 percent slopes				
	90	Mechanicsburg	4e	—
Md--Melvin silt loam, frequently flooded				
	85	Melvin	3w	—
Mg--Melvin silt loam, ponded				
	90	Melvin	5w	—
Or--Orrville silt loam, occasionally flooded				
	85	Orrville	2w	—

Land Capability Classification--Holmes County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Pg—Pits, gravel				
	100	Pits	—	—
Pu—Pits, quarry				
	100	Pits	—	—
ReA—Ravenna silt loam, 0 to 2 percent slopes				
	85	Ravenna	2w	—
ReB—Ravenna silt loam, 2 to 6 percent slopes				
	85	Ravenna	2e	—
RfB—Rigley sandy loam, 2 to 6 percent slopes				
	90	Rigley	2e	—
RfC—Rigley sandy loam, 6 to 15 percent slopes				
	85	Rigley	3e	—
RgB—Rigley sandy loam, 3 to 8 percent slopes				
	90	Rigley	2e	—
RgC—Rigley sandy loam, 8 to 15 percent slopes				
	85	Rigley	3e	—
RgD—Rigley sandy loam, 15 to 25 percent slopes				
	85	Rigley	4e	—
ScD—Schaffemaker loamy sand, 12 to 25 percent slopes				
	90	Schaffemaker	6s	—
Se—Sebring silt loam				
	90	Sebring	3w	—
Tg—Tioga loam, occasionally flooded				
	90	Tioga	1	—
Tk—Tioga fine sandy loam, occasionally flooded				
	90	Tioga	2w	—
Ud—Udorthents, loamy				
	100	Udorthents	6s	—
Up—Udorthents-Pits complex				
	70	Udorthents	6s	—
	20	Pits	—	—

Land Capability Classification--Holmes County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
W—Water				
	100	Water	—	—
Wa—Walkkill silt loam				
	85	Walkkill	3w	—
WdC—Westmoreland silt loam, 6 to 15 percent slopes				
	85	Westmoreland	3e	—
WeC2—Westmoreland silt loam, 8 to 15 percent slopes				
	80	Westmoreland	3e	—
WeD—Westmoreland silt loam, 15 to 25 percent slopes				
	85	Westmoreland	4e	—
WeD2—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—
WeE—Westmoreland silt loam, 25 to 35 percent slopes				
	80	Westmoreland	6e	—
WgC2—Westmoreland-Coshocton complex, 8 to 15 percent slopes, eroded				
	50	Westmoreland	3e	—
	40	Coshocton	3e	—
WgD2—Westmoreland-Coshocton complex, 15 to 25 percent slopes, eroded				
	50	Westmoreland	4e	—
	40	Coshocton	4e	—
WkC—Westmoreland-Guernsey silt loams, 8 to 15 percent slopes				
	60	Westmoreland	3e	—
	25	Guernsey	3e	—
WkD—Westmoreland-Guernsey silt loams, 15 to 25 percent slopes				
	60	Westmoreland	4e	—
	25	Guernsey	4e	—
WsB—Wooster silt loam, 2 to 6 percent slopes				
	90	Wooster	2e	—
WsC—Wooster silt loam, 6 to 12 percent slopes				
	90	Wooster	3e	—

Land Capability Classification--Holmes County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WsC2--Wooster silt loam, 6 to 12 percent slopes, eroded				
	90	Wooster	3e	—
WsD2--Wooster silt loam, 12 to 18 percent slopes, eroded				
	90	Wooster	4e	—
WsE--Wooster silt loam, 18 to 35 percent slopes				
	100	Wooster	6e	—
WtB--Wooster-Chili complex, 2 to 6 percent slopes				
	60	Wooster	2e	—
	30	Chili	2e	—
WtC2--Wooster-Chili complex, 6 to 12 percent slopes, eroded				
	60	Wooster	3e	—
	30	Chili	3e	—
WtD2--Wooster-Chili complex, 12 to 18 percent slopes, eroded				
	60	Wooster	4e	—
	30	Chili	4e	—

Data Source Information

Soil Survey Area: Holmes County, Ohio
 Survey Area Data: Version 13, Sep 18, 2014