

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—Perry County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ae—Aetna silt loam, occasionally flooded				
	80	Aetna	2w	—
AfB—Alford silt loam, 1 to 8 percent slopes				
	90	Alford	2e	—
AfC—Alford silt loam, 8 to 15 percent slopes				
	90	Alford	3e	—
AfC2—Alford silt loam, 8 to 15 percent slopes, eroded				
	80	Alford	3e	—
AfD—Alford silt loam, 15 to 25 percent slopes				
	90	Alford	4e	—
AgB—Alford silt loam, 2 to 8 percent slopes				
	85	Alford	2e	—
AmB2—Amanda silt loam, 2 to 6 percent slopes, eroded				
	95	Amanda	2e	—
AmC2—Amanda silt loam, 6 to 12 percent slopes, eroded				
	90	Amanda	3e	—
AmD2—Amanda silt loam, 12 to 18 percent slopes, eroded				
	80	Amanda	4e	—
AoC3—Amanda silty clay loam, 6 to 12 percent slopes, severely eroded				
	80	Amanda	4e	—
BbE—Berks channery silt loam, 25 to 35 percent slopes				
	85	Berks	6e	—
BcF—Berks-Westmoreland complex, 40 to 70 percent slopes				
	40	Berks	7e	—
	35	Westmoreland	7e	—

Land Capability Classification--Perry County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BeA--Bennington silt loam, 0 to 3 percent slopes				
	85	Bennington	2w	—
BhB--Bethesda silt loam, 0 to 8 percent slopes				
	85	Bethesda	3s	—
BhD--Bethesda silt loam, 8 to 20 percent slopes				
	85	Bethesda	4s	—
BkB--Bethesda channery loam, 0 to 8 percent slopes				
	85	Bethesda	6s	—
BkD--Bethesda channery loam, 8 to 20 percent slopes				
	85	Bethesda	6s	—
BkF--Bethesda channery loam, 40 to 70 percent slopes				
	85	Bethesda	7e	—
BvF--Brownsville silt loam, 40 to 70 percent slopes				
	85	Brownsville	7e	—
CdB--Centerburg silt loam, 2 to 6 percent slopes				
	85	Centerburg	2e	—
Chg1AF--Chagrin silt loam, 0 to 3 percent slopes, frequently flooded				
	95	Chagrin	2w	—
CkB--Cincinnati silt loam, 1 to 8 percent slopes				
	90	Cincinnati	2e	—
CkC2--Cincinnati silt loam, 8 to 15 percent slopes, eroded				
	85	Cincinnati	3e	—
CoC2--Cincinnati silt loam, 6 to 15 percent slopes, eroded				
	80	Cincinnati	3e	—
DkC--DeKalb loam, 8 to 15 percent slopes				
	85	DeKalb	3e	—
DkD--DeKalb loam, 15 to 25 percent slopes				
	85	DeKalb	4e	—

Land Capability Classification--Perry County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
DkE--Dekalb loam, 25 to 40 percent slopes				
	80	Dekalb	6e	—
DmF--Dekalb loam, 40 to 70 percent slopes, very stony				
	80	Dekalb	7s	—
Ds--Dumps, mine				
	100	Dumps	—	—
EnE--Enoch shaly clay loam, 20 to 40 percent slopes				
	80	Enoch	8s	—
EuA--Euclid silt loam, rarely flooded				
	85	Euclid	2w	—
FbD--Fairpoint channery clay loam, 8 to 20 percent slopes				
	85	Fairpoint	6s	—
FbF--Fairpoint channery clay loam, 40 to 70 percent slopes				
	85	Fairpoint	7e	—
FcF--Fairpoint channery silty clay loam, 25 to 70 percent slopes				
	85	Fairpoint	7e	—
FdA--Fitchville silt loam, 0 to 2 percent slopes				
	80	Fitchville	2w	—
FtA--Fitchville silt loam, 0 to 3 percent slopes				
	85	Fitchville	2w	—
GdC--Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GdC2--Gilpin silt loam, 8 to 15 percent slopes, eroded				
	80	Gilpin	3e	—
GdD--Gilpin silt loam, 15 to 25 percent slopes				
	85	Gilpin	4e	—
GnB--Glenford silt loam, 1 to 8 percent slopes				
	80	Glenford	2e	—
GoB--Glenford silt loam, 2 to 6 percent slopes				
	80	Glenford	2e	—

Land Capability Classification--Perry County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GwC—Guernsey-Westmoreland silt loams, 8 to 15 percent slopes				
	50	Guernsey	3e	—
	30	Westmoreland	3e	—
GwD—Guernsey-Westmoreland silt loams, 15 to 25 percent slopes				
	45	Guernsey	4e	—
	35	Westmoreland	4e	—
GwE—Guernsey-Westmoreland silt loams, 25 to 40 percent slopes				
	45	Guernsey	6e	—
	35	Westmoreland	6e	—
HaD2—Homewood-Westmoreland silt loams, 15 to 25 percent slopes, eroded				
	45	Homewood	4e	—
	30	Westmoreland	4e	—
HaE2—Homewood-Westmoreland silt loams, 25 to 40 percent slopes, eroded				
	45	Homewood	6e	—
	35	Westmoreland	6e	—
HoD2—Homewood silt loam, 15 to 20 percent slopes, eroded				
	80	Homewood	4e	—
Km—Killbuck silt loam, frequently flooded				
	85	Killbuck	3w	—
KnL1AF—Kinnick-Lindside silt loams, 0 to 3 percent slopes, frequently flooded				
	70	Kinnick	2w	—
	20	Lindside	2w	—
LaB—Lakin loamy sand, 1 to 8 percent slopes				
	90	Lakin	3s	—
Lk—Lindside silt loam, occasionally flooded				
	75	Lindside	2w	—
Ln—Linwood muck				
	100	Linwood	2w	—
Lu—Luray silt loam				
	85	Luray	2w	—

Land Capability Classification--Perry County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ma—Marengo clay loam				
	80	Marengo	2w	—
Mc—Melvin silt loam, ponded				
	85	Melvin	5w	—
MeB—Mentor silt loam, gravelly substratum, 1 to 8 percent slopes				
	95	Mentor	2e	—
MeC—Mentor silt loam, gravelly substratum, 8 to 15 percent slopes				
	85	Mentor	3e	—
Mel1AF—Melvin silt loam, 0 to 2 percent slopes, frequently flooded				
	90	Melvin	3w	—
Ne—Newark silt loam, frequently flooded				
	85	Newark	3w	—
New1AF—Newark silt loam, 0 to 3 percent slopes, frequently flooded				
	90	Newark	2w	—
No—Nolin silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Nolin, occasionally flooded	2w	—
OcA—Ockley loam, 0 to 2 percent slopes				
	95	Ockley	1	—
OcB—Ockley loam, 2 to 6 percent slopes				
	90	Ockley	2e	—
OcC2—Ockley loam, 6 to 12 percent slopes, eroded				
	85	Ockley	3e	—
Orr1AF—Orrville silt loam, 0 to 3 percent slopes, frequently flooded				
	85	Orrville	2w	—
Pa—Patton silty clay loam				
	80	Patton	2w	—
Pb—Patton silty clay loam, rarely flooded				
	80	Patton	2w	—
Pg—Peoga silt loam, rarely flooded				
	80	Peoga	3w	—

Land Capability Classification--Perry County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Pm—Pewamo silty clay loam				
	90	Pewamo	2w	—
Sc—Sebring silt loam, rarely flooded				
	85	Sebring	3w	—
SfD—Shelocta-Cruze complex, 15 to 25 percent slopes				
	45	Shelocta	4e	—
	40	Cruze	4e	—
SfE—Shelocta-Cruze complex, 25 to 40 percent slopes				
	45	Shelocta	6e	—
	40	Cruze	6e	—
Uc—Udorthents-Pits complex				
	70	Udorthents	—	—
	20	Pits	—	—
Ud—Udorthents				
	100	Udorthents	—	—
UpC—Upshur silty clay loam, 8 to 15 percent slopes				
	90	Upshur	4e	—
UpD—Upshur silty clay loam, 15 to 25 percent slopes				
	80	Upshur	6e	—
W—Water				
	100	Water	—	—
WcB—Wellston silt loam, 3 to 8 percent slopes				
	85	Wellston	2e	—
WhB—Wellston silt loam, 1 to 8 percent slopes				
	90	Wellston	2e	—
WhC—Wellston silt loam, 8 to 15 percent slopes				
	85	Wellston	3e	—
WkB—Westmore silt loam, 1 to 8 percent slopes				
	80	Westmore	2e	—
WkC—Westmore silt loam, 8 to 15 percent slopes				
	85	Westmore	3e	—

Land Capability Classification--Perry County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WmC—Westmoreland silt loam, 8 to 15 percent slopes				
	80	Westmoreland	3e	—
WmD—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—
WmE—Westmoreland silt loam, 25 to 35 percent slopes				
	80	Westmoreland	6e	—
WnE—Westmoreland loam, 20 to 40 percent slopes, very bouldery				
	90	Westmoreland	7s	—
WrC2—Westmoreland-Guernsey silt loams, 8 to 15 percent slopes, eroded				
	45	Westmoreland	3e	—
	35	Guernsey	3e	—
WrD2—Westmoreland-Guernsey silt loams, 15 to 25 percent slopes, eroded				
	45	Westmoreland	4e	—
	35	Guernsey	4e	—
WrE2—Westmoreland-Guernsey silt loams, 25 to 40 percent slopes, eroded				
	45	Westmoreland	6e	—
	35	Guernsey	6e	—
WsF—Westmoreland-Guernsey silt loams, 40 to 70 percent slopes				
	50	Westmoreland	7e	—
	30	Guernsey	7e	—
WtC—Woodsfield silt loam, 8 to 15 percent slopes				
	90	Woodsfield	3e	—
ZnB—Zanesville silt loam, 1 to 8 percent slopes				
	90	Zanesville	2e	—
ZnC—Zanesville silt loam, 8 to 15 percent slopes				
	85	Zanesville	3e	—

Data Source Information

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