

## 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—Guernsey County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AaB—Aaron silt loam, 2 to 8 percent slopes				
	85	Aaron	2e	—
AaC—Aaron silt loam, 8 to 15 percent slopes				
	85	Aaron	3e	—
AaC2—Aaron silt loam, 8 to 15 percent slopes, eroded				
	80	Aaron	3e	—
AbB—Aaron-Upshur complex, 2 to 8 percent slopes				
	50	Aaron	2e	—
	35	Upshur	3e	—
AbC2—Aaron-Upshur complex, 8 to 15 percent slopes, eroded				
	50	Aaron	3e	—
	35	Upshur	4e	—
AgC—Allegheny loam, 8 to 15 percent slopes				
	80	Allegheny	3e	—
BaD—Barkcamp loam, 8 to 25 percent slopes				
	85	Barkcamp	6s	—
BcB—Barkcamp very flaggy sandy loam, 0 to 8 percent slopes, very stony				
	85	Barkcamp	8s	—
BcD—Barkcamp very flaggy sandy loam, 8 to 40 percent slopes, very stony				
	85	Barkcamp	8s	—
BeC—Berks channery silt loam, 8 to 15 percent slopes				
	85	Berks	3e	—
BeD—Berks channery silt loam, 15 to 25 percent slopes				
	85	Berks	4e	—

Land Capability Classification--Guernsey County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BeE--Berks channery silt loam, 25 to 35 percent slopes				
	85	Berks	6e	—
BeF--Berks channery silt loam, 35 to 70 percent slopes				
	85	Berks	7e	—
BgB--Bethesda clay loam, 0 to 8 percent slopes				
	90	Bethesda	3s	—
BgD--Bethesda clay loam, 8 to 25 percent slopes				
	90	Bethesda	4s	—
BgE--Bethesda clay loam, 25 to 40 percent slopes				
	90	Bethesda	6e	—
BhB--Bethesda channery loam, 0 to 8 percent slopes				
	90	Bethesda	6s	—
BhD--Bethesda channery loam, 8 to 25 percent slopes				
	90	Bethesda	6s	—
BhF--Bethesda channery loam, 25 to 70 percent slopes				
	90	Bethesda	7e	—
BkD--Brookside silty clay loam, 15 to 25 percent slopes				
	80	Brookside	4e	—
BkE--Brookside silty clay loam, 25 to 40 percent slopes				
	80	Brookside	6e	—
BrC2--Brookside silty clay loam, 8 to 15 percent slopes, eroded				
	80	Brookside	3e	—
BrE--Brookside silty clay loam, 15 to 40 percent slopes				
	75	Brookside	6e	—
BsD--Brookside silt loam, 15 to 25 percent slopes				
	85	Brookside	4e	—

Land Capability Classification--Guernsey County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BsD2—Brookside silt loam, 15 to 25 percent slopes, eroded				
	85	Brookside	4e	—
BtC—Brookside-Vandalia complex, 8 to 15 percent slopes				
	45	Brookside	3e	—
	35	Vandalia	3e	—
BtD—Brookside-Vandalia complex, 15 to 25 percent slopes				
	50	Brookside	4e	—
	30	Vandalia	4e	—
BtD2—Brookside-Vandalia complex, 15 to 25 percent slopes, eroded				
	45	Brookside	4e	—
	40	Vandalia	4e	—
BtE—Brookside-Vandalia complex, 25 to 40 percent slopes				
	50	Brookside	6e	—
	30	Vandalia	6e	—
Ca—Chagrin loam, 0 to 3 percent slopes, occasionally flooded				
	85	Chagrin	2w	—
CbD—Clarksburg silt loam, 15 to 25 percent slopes				
	83	Clarksburg	4e	—
ChD—Clarksburg channery silt loam, 15 to 25 percent slopes				
	80	Clarksburg	4e	—
CkC—Claysville-Guernsey complex, 8 to 15 percent slopes				
	55	Claysville	3w	—
	30	Guernsey	3e	—
CoD—Coshocton loam, 15 to 25 percent slopes				
	80	Coshocton	4e	—
CsB—Coshocton silt loam, 3 to 8 percent slopes				
	85	Coshocton	2e	—
CsC2—Coshocton silt loam, 8 to 15 percent slopes, eroded				
	85	Coshocton	3e	—

Land Capability Classification--Guernsey County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CsD—Coshocton silt loam, 15 to 25 percent slopes				
	85	Coshocton	4e	—
DkC—DeKalb channery loam, 8 to 15 percent slopes				
	85	DeKalb	3e	—
DkD—DeKalb channery loam, 15 to 25 percent slopes				
	85	DeKalb	4e	—
DkE—DeKalb channery loam, 25 to 40 percent slopes				
	85	DeKalb	6e	—
DkF—DeKalb channery loam, 40 to 70 percent slopes				
	85	DeKalb	7e	—
DmF—DeKalb channery loam, 25 to 70 percent slopes, very stony				
	85	DeKalb	7s	—
Dp—Dumps				
	90	Dumps	—	—
Ds—Dumps, mine				
	90	Dumps	—	—
EbC—Elba silty clay loam, 8 to 15 percent slopes				
	85	Elba	3e	—
EbD—Elba silty clay loam, 15 to 25 percent slopes				
	85	Elba	4e	—
EbE—Elba silty clay loam, 25 to 40 percent slopes				
	80	Elba	6e	—
EkF—Elba-Berks complex, 40 to 70 percent slopes				
	45	Elba	7e	—
	35	Berks	7e	—
EnB—Enoch loam, 0 to 8 percent slopes				
	95	Enoch	6s	—
EnD—Enoch loam, 8 to 25 percent slopes				
	90	Enoch	6s	—

Land Capability Classification--Guernsey County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EuA—Euclid silt loam, rarely flooded				
	90	Euclid	2w	—
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	—
FcE—Fairpoint silty clay loam, 25 to 40 percent slopes				
	90	Fairpoint	6e	—
FtA—Fitchville silt loam, 0 to 3 percent slopes				
	85	Fitchville	2w	—
GdB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GdC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GdD—Gilpin silt loam, 15 to 25 percent slopes				
	85	Gilpin	4e	—
GnA—Glenford silt loam, 0 to 3 percent slopes				
	85	Glenford	1	—
GnB—Glenford silt loam, 3 to 8 percent slopes				
	85	Glenford	2e	—
GpA—Glenford-Urban land complex, 0 to 2 percent slopes				
	45	Glenford	—	—
	35	Urban land	—	—
GrC—Guernsey silt loam, 8 to 15 percent slopes				
	80	Guernsey	3e	—
GrD2—Guernsey silt loam, 15 to 25 percent slopes, eroded				
	80	Guernsey	4e	—
GuC—Guernsey-Upshur complex, 8 to 15 percent slopes				
	50	Guernsey	3e	—
	35	Upshur	4e	—

Land Capability Classification--Guernsey County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GuD—Guernsey-Upshur complex, 15 to 25 percent slopes				
	50	Guernsey	4e	—
	35	Upshur	6e	—
GvD2—Guernsey-Upshur silty clay loams, 15 to 25 percent slopes, eroded				
	50	Guernsey	4e	—
	40	Upshur	6e	—
HaF—Hazleton channery loam, 25 to 70 percent slopes, stony				
	85	Hazleton	7s	—
HbE—Hazleton channery loam, 25 to 40 percent slopes				
	85	Hazleton	6e	—
He—Hartshorn silt loam, occasionally flooded				
	85	Hartshorn	2s	—
Ho—Holton silt loam, occasionally flooded				
	90	Holton	3w	—
KaB—Kanawha loam, 2 to 6 percent slopes				
	85	Kanawha	2e	—
KeB—Keene silt loam, 3 to 8 percent slopes				
	90	Keene	2e	—
KeC—Keene silt loam, 8 to 15 percent slopes				
	85	Keene	3e	—
KfB—Keene silt loam, 2 to 6 percent slopes				
	80	Keene	2e	—
KnL1AF—Kinnick-Lindside silt loams, 0 to 3 percent slopes, frequently flooded				
	70	Kinnick	2w	—
	20	Lindside	2w	—
Lc—Lindside silt loam, occasionally flooded				
	85	Lindside	2w	—
Ld—Lindside silt loam, frequently flooded				
	85	Lindside	2w	—
Le—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
LoB—Lowell silt loam, 3 to 8 percent slopes				
	90	Lowell	2e	—
LoC—Lowell silt loam, moderately wet, 8 to 15 percent slopes				
	85	Lowell, moderately wet	3e	—
LoD—Lowell silt loam, moderately wet, 15 to 25 percent slopes				
	85	Lowell, moderately wet	4e	—
LoD2—Lowell silt loam, 15 to 25 percent slopes, eroded				
	80	Lowell	4e	—
LuE—Lowell-Upshur complex, 25 to 40 percent slopes				
	50	Lowell	6e	—
	35	Upshur	7e	—
LwC—Lowell-Westmoreland silt loams, 8 to 15 percent slopes				
	50	Lowell, moderately wet	3e	—
	35	Westmoreland	3e	—
LwD—Lowell-Westmoreland silt loams, 15 to 25 percent slopes				
	50	Lowell, moderately wet	4e	—
	30	Westmoreland	4e	—
LwE—Lowell-Westmoreland silt loams, 25 to 35 percent slopes				
	45	Lowell	6e	—
	30	Westmoreland	6e	—
LwF—Lowell-Westmoreland silt loams, 35 to 70 percent slopes				
	45	Lowell	7e	—
	30	Westmoreland	7e	—
LxE2—Lowell-Gilpin complex, 25 to 40 percent slopes, eroded				
	45	Lowell	7e	—
	35	Gilpin	7e	—
LxF—Lowell-Gilpin complex, 40 to 70 percent slopes				
	45	Lowell	7e	—
	30	Gilpin	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
McA—McGary silt loam, 0 to 3 percent slopes				
	90	Mcgary	3w	—
Md—Melvin silt loam, ponded				
	90	Melvin	5w	—
MeB—Mentor silt loam, 2 to 8 percent slopes				
	95	Mentor	2e	—
MeC—Mentor silt loam, 8 to 15 percent slopes				
	90	Mentor	3e	—
MeD—Mentor silt loam, 15 to 25 percent slopes				
	90	Mentor	6e	—
MfB—Mentor-Urban land complex, 2 to 8 percent slopes				
	50	Mentor	—	—
	40	Urban land	—	—
MgB—Mentor silt loam, 2 to 6 percent slopes				
	85	Mentor	2e	—
MnB—Morristown silty clay loam, 0 to 8 percent slopes				
	90	Morristown	3s	—
MnD—Morristown silty clay loam, 8 to 25 percent slopes				
	90	Morristown	4s	—
MoF—Morristown channery clay loam, 40 to 70 percent slopes				
	85	Morristown	7e	—
MrF—Morristown channery silty clay loam, 25 to 70 percent slopes				
	75	Morristown	7e	—
Nd—Newark silt loam, occasionally flooded				
	85	Newark	2w	—
Ne—Newark silt loam, frequently flooded				
	85	Newark	2w	—
No—Nolin silt loam, 0 to 3 percent slopes, frequently flooded				
	90	Nolin	2w	—
Omu1B1—Omulga silt loam, 2 to 6 percent slopes				
	85	Omulga	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Omu1C1—Omulga silt loam, 6 to 12 percent slopes				
	85	Omulga	3e	—
Or—Orrville silt loam, occasionally flooded				
	90	Orrville	2w	—
RcC—Richland channery loam, 8 to 15 percent slopes				
	80	Richland	3e	—
RcD—Richland channery loam, 15 to 25 percent slopes				
	80	Richland	4e	—
Sa—Sarahsville silty clay loam, frequently flooded				
	90	Sarahsville	4w	—
Sb—Sarahsville silty clay, frequently flooded				
	85	Sarahsville	4w	—
SeB—Sees silty clay loam, 2 to 6 percent slopes				
	90	Sees	2w	—
Ub—Udorthents, loamy-Rock outcrop complex				
	70	Udorthents	—	—
	20	Rock outcrop	—	—
Uc—Udorthents-Pits complex				
	70	Udorthents	—	—
	20	Pits	—	—
Ud—Udorthents-Urban land complex				
	60	Udorthents	—	—
	35	Urban land	—	—
Uf—Udorthents, loamy, hilly				
	70	Udorthents	—	—
UmC—Upshur silt loam, 8 to 15 percent slopes				
	85	Upshur	4e	—
UpB—Upshur silt loam, 2 to 6 percent slopes				
	85	Upshur	3e	—
UrC—Upshur silty clay loam, 6 to 15 percent slopes				
	85	Upshur	4e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
UrC2—Upshur silty clay loam, 6 to 15 percent slopes, eroded				
	85	Upshur	4e	—
UrD—Upshur silty clay loam, 15 to 25 percent slopes				
	80	Upshur	6e	—
UrD3—Upshur silty clay loam, 15 to 25 percent slopes, severely eroded				
	85	Upshur	7e	—
VaD2—Vandalia silty clay loam, 15 to 25 percent slopes, eroded				
	80	Vandalia	4e	—
VaE2—Vandalia silty clay loam, 25 to 40 percent slopes, eroded				
	85	Vandalia	6e	—
VtC—Vincent silt loam, 6 to 15 percent slopes				
	90	Vincent	3e	—
VwB—Vincent silty clay loam, 2 to 6 percent slopes				
	90	Vincent	2e	—
W—Water				
	100	Water	—	—
WhB—Wellston silt loam, 3 to 8 percent slopes				
	85	Wellston	2e	—
WhC—Wellston silt loam, 8 to 15 percent slopes				
	85	Wellston	3e	—
WkB—Westmore silt loam, 2 to 8 percent slopes				
	85	Westmore	2e	—
WkC2—Westmore silt loam, 8 to 15 percent slopes, eroded				
	85	Westmore	3e	—
WmC—Westmoreland silt loam, 8 to 15 percent slopes				
	80	Westmoreland	3e	—
WmD—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—

Land Capability Classification--Guernsey County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WmE—Westmoreland silt loam, 25 to 35 percent slopes				
	80	Westmoreland	6e	—
WnF—Westmoreland-Berks complex, 40 to 70 percent slopes				
	55	Westmoreland	7e	—
	30	Berks	7e	—
WoF—Westmoreland-Dekalb complex, 40 to 70 percent slopes				
	55	Westmoreland	7e	—
	30	Dekalb	7e	—
WrC—Westmoreland-Urban land complex, 6 to 15 percent slopes				
	45	Westmoreland	—	—
	35	Urban land	—	—
WrD—Westmoreland-Urban land complex, 15 to 25 percent slopes				
	45	Westmoreland	—	—
	35	Urban land	—	—
WtB—Woodsfield silt loam, 1 to 8 percent slopes				
	85	Woodsfield	2e	—
WtC—Woodsfield silt loam, 8 to 15 percent slopes				
	85	Woodsfield	3e	—
ZnB—Zanesville silt loam, 2 to 6 percent slopes				
	85	Zanesville	2e	—
ZnC—Zanesville silt loam, 6 to 15 percent slopes				
	85	Zanesville	3e	—
Zp—Zipp silty clay loam, frequently flooded				
	90	Zipp	4w	—
Zs—Zipp silty clay loam, ponded				
	90	Zipp	5w	—

## Data Source Information

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