

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—Jefferson County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AoC2—Aaron silty clay loam, 6 to 15 percent slopes, eroded				
	85	Aaron	3e	—
BeB—Berks channery silt loam, 2 to 6 percent slopes				
	85	Berks	2e	—
BeC—Berks channery silt loam, 6 to 15 percent slopes				
	85	Berks	3e	—
BeD—Berks channery silt loam, 15 to 25 percent slopes				
	85	Berks	4e	—
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 shaly silt loam, 15 to 25 percent slopes				
	90	Berks	4e	—
BIC—Berks-Aaron complex, 6 to 15 percent slopes				
	60	Berks	3e	—
	25	Aaron	3e	—
BmC—Berks-Guernsey complex, 8 to 15 percent slopes				
	55	Berks	3e	—
	30	Guernsey	3e	—
BmD—Berks-Guernsey complex, 15 to 25 percent slopes				
	55	Berks	4e	—
	30	Guernsey	4e	—

Land Capability Classification--Jefferson County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BmE—Berks-Guernsey complex, 25 to 40 percent slopes				
	55	Berks	6e	—
	30	Guernsey	6e	—
BnD—Bethesda silt loam, 8 to 25 percent slopes				
	90	Bethesda	4s	—
BpC—Bethesda very channery clay loam, 3 to 15 percent slopes				
	85	Bethesda	6s	—
BpF—Bethesda very channery clay loam, 25 to 70 percent slopes				
	85	Bethesda	7e	—
BsC—Brookside silty clay loam, 8 to 15 percent slopes				
	80	Brookside	3e	—
BsD—Brookside silty clay loam, 15 to 25 percent slopes				
	80	Brookside	4e	—
BsE—Brookside silty clay loam, 25 to 40 percent slopes				
	80	Brookside	6e	—
CkD—Clarksburg silt loam, 15 to 25 percent slopes				
	83	Clarksburg	4e	—
CmD—Clarksburg-Urban land complex, 15 to 25 percent slopes				
	60	Clarksburg	—	—
	30	Urban land	—	—
CnB—Coshocton silt loam, 1 to 7 percent slopes				
	85	Coshocton	2e	—
CoB—Coshocton silt loam, 2 to 6 percent slopes				
	90	Coshocton	2e	—
CoC—Coshocton silt loam, 6 to 15 percent slopes				
	85	Coshocton	3e	—

Land Capability Classification--Jefferson County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
DkE—DeKalb channery loam, 25 to 40 percent slopes				
	90	DeKalb	6e	—
DkF—DeKalb channery loam, 40 to 70 percent slopes				
	85	DeKalb	7e	—
Ds—Dumps, mine				
	100	Dumps	—	—
EbC2—Elba silty clay loam, 8 to 15 percent slopes, eroded				
	95	Elba	3e	—
EbD2—Elba silty clay loam, 15 to 25 percent slopes, eroded				
	95	Elba	4e	—
FaC—Fairpoint silt loam, 3 to 15 percent slopes				
	95	Fairpoint	4s	—
FbC—Fairpoint very shaly clay loam, 3 to 15 percent slopes				
	85	Fairpoint	6s	—
FbF—Fairpoint very shaly clay loam, 25 to 70 percent slopes				
	90	Fairpoint	7e	—
FcB—Fitchville variant silt loam, 1 to 6 percent slopes				
	90	Fitchville variant	2e	—
GkB—Gilpin silt loam, 2 to 6 percent slopes				
	85	Gilpin	2e	—
GkC—Gilpin silt loam, 6 to 15 percent slopes				
	85	Gilpin	3e	—
GmC—Gilpin-Coshocton complex, 6 to 15 percent slopes				
	55	Gilpin	3e	—
	30	Coshocton	3e	—
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	—

Land Capability Classification--Jefferson County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GoC—Gilpin-Coshocton silt loams, 8 to 15 percent slopes				
	50	Gilpin	3e	—
	40	Coshocton	3e	—
GoD—Gilpin-Coshocton silt loams, 15 to 25 percent slopes				
	55	Gilpin	4e	—
	30	Coshocton	4e	—
GpC—Gilpin-Lowell silt loams, 8 to 15 percent slopes				
	55	Gilpin	3e	—
	35	Lowell	3e	—
GpD—Gilpin-Lowell silt loams, 15 to 25 percent slopes				
	55	Gilpin	4e	—
	35	Lowell	4e	—
GrC—Gilpin-Lowell complex, 6 to 15 percent slopes				
	55	Gilpin	3e	—
	30	Lowell	3e	—
GsB—Glenford silt loam, 3 to 8 percent slopes				
	85	Glenford	2e	—
GsC—Glenford silt loam, 8 to 15 percent slopes				
	85	Glenford	3e	—
GtC—Germano fine sandy loam, 6 to 15 percent slopes				
	85	Germano	3e	—
GtD—Germano fine sandy loam, 15 to 25 percent slopes				
	85	Germano	4e	—
GuB—Guernsey silt loam, 1 to 7 percent slopes				
	85	Guernsey	2e	—
GvC2—Guernsey silty clay loam, 7 to 15 percent slopes, eroded				
	85	Guernsey	3e	—
GyC—Guernsey silt loam, 6 to 15 percent slopes				
	85	Guernsey	3e	—

Land Capability Classification--Jefferson County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HeE—Hazleton channery loam, 25 to 40 percent slopes				
	90	Hazleton	6e	—
HfE—Hazleton-Summitville complex, 15 to 40 percent slopes				
	50	Hazleton	6e	—
	30	Summitville	4e	—
HgE—Hazleton-Westmoreland complex, 25 to 40 percent slopes				
	55	Hazleton	6e	—
	30	Westmoreland	6e	—
HgF—Hazleton-Westmoreland complex, 40 to 70 percent slopes				
	55	Hazleton	7e	—
	30	Westmoreland	7e	—
KeB—Keene silt loam, 3 to 8 percent slopes				
	90	Keene	2e	—
KnB—Keene silt loam, 2 to 6 percent slopes				
	85	Keene	2e	—
LmC—Lowell silt loam, 6 to 15 percent slopes				
	85	Lowell	3e	—
LnB—Lowell silt loam, 1 to 7 percent slopes				
	90	Lowell	2e	—
LnC—Lowell silt loam, 8 to 15 percent slopes				
	85	Lowell	3e	—
LoD2—Lowell silty clay loam, 15 to 25 percent slopes, eroded				
	80	Lowell	4e	—
LoE—Lowell silty clay loam, 25 to 40 percent slopes				
	85	Lowell	6e	—
LoE2—Lowell silty clay loam, 25 to 40 percent slopes, eroded				
	85	Lowell	6e	—
LoF—Lowell silty clay loam, 40 to 70 percent slopes				
	90	Lowell	7e	—
Me—Melvin silt loam, ponded				
	90	Melvin	5w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MkD—Morristown silty clay loam, 8 to 25 percent slopes				
	90	Morristown	4s	—
MnA—Morristown silty clay loam, 0 to 3 percent slopes				
	90	Morristown	3s	—
MnC—Morristown silty clay loam, 3 to 15 percent slopes				
	90	Morristown	4s	—
MnE—Morristown silty clay loam, 15 to 40 percent slopes				
	95	Morristown	6e	—
MoA—Morristown shaly silty clay loam, 0 to 3 percent slopes, stony				
	95	Morristown	6s	—
MoC—Morristown shaly silty clay loam, 3 to 15 percent slopes, stony				
	85	Morristown	6s	—
MpF—Morristown channery silt loam, 25 to 70 percent slopes, bouldery				
	85	Morristown	7e	—
MrF—Morristown shaly silty clay loam, 25 to 70 percent slopes, bouldery				
	85	Morristown	7e	—
MuB—Morristown channery silty clay loam, 0 to 8 percent slopes, stony				
	85	Morristown	6s	—
MuD—Morristown channery silty clay loam, 8 to 25 percent slopes, stony				
	85	Morristown	6s	—
No—Nolin silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Nolin, occasionally flooded	2w	—
OIC—Omulga silt loam, 6 to 15 percent slopes				
	85	Omulga	3e	—
Omm1B1—Omulga silt loam, mixed substratum, 2 to 6 percent slopes				
	85	Omulga, mixed mineralogy substratum phase	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Omm1C1—Omulga silt loam, mixed substratum, 6 to 12 percent slopes				
	85	Omulga, mixed mineralogy substratum phase	3e	—
Or—Orrville silt loam, occasionally flooded				
	85	Orrville	2w	—
RaB—Richland silt loam, 2 to 6 percent slopes				
	85	Richland	2e	—
RcB—Richland silt loam, 1 to 7 percent slopes				
	85	Richland	2e	—
RcC—Richland silt loam, 7 to 15 percent slopes				
	85	Richland	3e	—
RgC—Rigley sandy loam, 8 to 15 percent slopes				
	100	Rigley	3e	—
RgD—Rigley sandy loam, 15 to 25 percent slopes				
	100	Rigley	4e	—
StB—Steinsburg-Rigley variant fine sandy loams, 3 to 8 percent slopes				
	60	Steinsburg	2e	—
	25	Rigley variant	2e	—
StC—Steinsburg-Rigley variant fine sandy loams, 8 to 15 percent slopes				
	60	Steinsburg	3e	—
	25	Rigley variant	3e	—
StD—Steinsburg-Rigley variant fine sandy loams, 15 to 25 percent slopes				
	65	Steinsburg	4e	—
	20	Rigley variant	4e	—
Tf—Tioga loam, rarely flooded				
	90	Tioga	1	—
Tg—Tioga silt loam, occasionally flooded				
	90	Tioga	1	—
ToA—Tioga loam, 0 to 2 percent slopes, occasionally flooded				
	90	Tioga	1	—
Ua—Udorthents, loamy, 2 to 25 percent slopes				
	85	Udorthents, loamy	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ub—Udorthents, loamy				
	90	Udorthents	—	—
Uc—Udorthents-Pits complex				
	70	Udorthents	—	—
	20	Pits	—	—
Ud—Udorthents-Urban land complex				
	60	Udorthents	—	—
	30	Urban land	—	—
UkC2—Upshur-Berks complex, 6 to 15 percent slopes, eroded				
	70	Upshur	4e	—
	20	Berks	3e	—
UpC2—Upshur silty clay loam, 8 to 15 percent slopes, eroded				
	90	Upshur	4e	—
Ur—Urban land				
	90	Urban land	—	—
UsA—Urban land-Chavies complex, 0 to 3 percent slopes				
	65	Urban land	—	—
	35	Chavies	—	—
UtC—Urban land-Gilpin-Lowell complex, 8 to 15 percent slopes				
	40	Urban land	—	—
	35	Gilpin	—	—
	25	Lowell	—	—
UtD—Urban land-Gilpin-Lowell complex, 15 to 25 percent slopes				
	40	Urban land	—	—
	35	Gilpin	—	—
	25	Lowell	—	—
UvC—Urban land-Omulga complex, 3 to 15 percent slopes				
	60	Urban land	—	—
	35	Omulga	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
UwB—Urban land-Steinsburg complex, 3 to 8 percent slopes				
	60	Urban land	—	—
	30	Steinsburg	—	—
W—Water				
	100	Water	—	—
WeB—Wellston silt loam, 1 to 7 percent slopes				
	90	Wellston	2e	—
WkC—Westmoreland silt loam, 8 to 15 percent slopes				
	80	Westmoreland	3e	—
WkD—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—
WmC—Westmoreland-Coshocton silt loams, 8 to 15 percent slopes				
	55	Westmoreland	3e	—
	30	Coshocton	3e	—
WnE—Westmoreland-Dekalb complex, 25 to 40 percent slopes				
	55	Westmoreland	6e	—
	30	Dekalb	6e	—
WtE—Westmoreland-Berks complex, 25 to 40 percent slopes				
	50	Westmoreland	6e	—
	40	Berks	6e	—
WtF—Westmoreland-Berks complex, 40 to 70 percent slopes				
	50	Westmoreland	7e	—
	40	Berks	7e	—
WuF—Westmoreland-Lowell complex, 40 to 70 percent slopes				
	45	Westmoreland	7e	—
	35	Lowell	7e	—
WvA—Wheeling silt loam, 0 to 3 percent slopes				
	85	Wheeling	1	—

Data Source Information

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