

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—Muskingum 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				
	80	Aaron	2e	—
AaC2—Aaron silt loam, 8 to 15 percent slopes, eroded				
	80	Aaron	3e	—
AaD2—Aaron silt loam, 15 to 25 percent slopes, eroded				
	80	Aaron	4e	—
AcB—Aaron-Upshur complex, 2 to 6 percent slopes				
	45	Aaron	2e	—
	30	Upshur	3e	—
AfB—Alford silt loam, 2 to 8 percent slopes				
	85	Alford	2e	—
AfC2—Alford silt loam, 8 to 15 percent slopes, eroded				
	80	Alford	3e	—
BeB—Berks channery silt loam, 3 to 8 percent slopes				
	85	Berks	2e	—
BeD—Berks channery silt loam, 15 to 25 percent slopes				
	85	Berks	4e	—
BeD2—Berks channery silt loam, 15 to 25 percent slopes, eroded				
	80	Berks	4e	—
BeE—Berks channery silt loam, 25 to 35 percent slopes				
	85	Berks	6e	—
BfF—Bethesda channery loam, 40 to 70 percent slopes				
	85	Bethesda	7e	—

Land Capability Classification--Muskingum County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BgB—Berks channery silt loam, 2 to 6 percent slopes				
	100	Berks	2e	—
BhB—Bethesda channery loam, 0 to 8 percent slopes				
	90	Bethesda	6s	—
BhD—Bethesda channery loam, 8 to 25 percent slopes				
	85	Bethesda	6s	—
BhF—Bethesda channery loam, 25 to 70 percent slopes				
	90	Bethesda	7e	—
BkF—Berks-Westmoreland complex, 40 to 70 percent slopes				
	40	Berks	7e	—
	35	Westmoreland	7e	—
BoB—Bethesda shaly silt loam, 1 to 15 percent slopes				
	80	Bethesda	6s	—
BoD—Bethesda shaly silt loam, 15 to 25 percent slopes				
	80	Bethesda	6s	—
BpF—Bethesda flaggy silt loam, 25 to 70 percent slopes				
	80	Bethesda	7e	—
BrE—Brownsville channery silt loam, 25 to 35 percent slopes				
	85	Brownsville	6e	—
BrF—Brownsville channery silt loam, 35 to 70 percent slopes				
	85	Brownsville	7e	—
BsC2—Brookside silty clay loam, 8 to 15 percent slopes, eroded				
	80	Brookside	3e	—
BsE—Brookside silty clay loam, 15 to 40 percent slopes				
	75	Brookside	6e	—
Cb—Chagrin loam, rarely flooded				
	80	Chagrin	1	—

Land Capability Classification--Muskingum County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CcA—Chavies loam, 0 to 2 percent slopes				
	80	Chavies	1	—
CcB—Chavies loam, 2 to 6 percent slopes				
	80	Chavies	2e	—
CeA—Chili loam, 0 to 3 percent slopes				
	85	Chili	2s	—
CeB—Chili loam, 3 to 8 percent slopes				
	85	Chili	2e	—
CfA—Chili loam, 0 to 2 percent slopes				
	100	Chili	2s	—
CfB—Chili loam, 2 to 6 percent slopes				
	100	Chili	2e	—
CfC2—Chili loam, 6 to 12 percent slopes, eroded				
	100	Chili	3e	—
ChA—Chili gravelly loam, 0 to 3 percent slopes				
	85	Chili	2s	—
ChB—Chili gravelly loam, 3 to 8 percent slopes				
	85	Chili	2e	—
ChC—Chili gravelly loam, 8 to 15 percent slopes				
	85	Chili	3e	—
CkA—Cidermill silt loam, 0 to 3 percent slopes				
	85	Cidermill	1	—
CnB—Cincinnati silt loam, 2 to 6 percent slopes				
	85	Cincinnati	2e	—
CnC2—Cincinnati silt loam, 6 to 15 percent slopes, eroded				
	80	Cincinnati	3e	—
CpC2—Clarksburg silt loam, 8 to 15 percent slopes, eroded				
	85	Clarksburg	3e	—
CrC—Claysville-Guernsey silty clay loams, 8 to 15 percent slopes				
	50	Claysville	3w	—
	30	Guernsey	3e	—

Land Capability Classification--Muskingum County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CsC2—Coshocton silt loam, 8 to 15 percent slopes, eroded				
	80	Coshocton	3e	—
CsD—Coshocton silt loam, 15 to 25 percent slopes				
	75	Coshocton	4e	—
CtE—Coshocton-Westmoreland silt loams, 25 to 40 percent slopes				
	45	Coshocton	6e	—
	35	Westmoreland	6e	—
Ds—Dumps and Pits, mine				
	100	Dumps and pits	—	—
FaB—Fairpoint silty clay loam, 1 to 15 percent slopes				
	80	Fairpoint	3s	—
FaD—Fairpoint silty clay loam, 15 to 25 percent slopes				
	80	Fairpoint	4s	—
FaE—Fairpoint silty clay loam, 25 to 50 percent slopes				
	80	Fairpoint	6e	—
FbF—Fairpoint channery silty clay loam, 25 to 70 percent slopes				
	85	Fairpoint	7e	—
FcA—Fitchville silt loam, 0 to 3 percent slopes				
	85	Fitchville	2w	—
FcB—Fitchville silt loam, 3 to 8 percent slopes				
	85	Fitchville	2e	—
FdB—Fairpoint loam, 0 to 8 percent slopes				
	90	Fairpoint	3s	—
FdD—Fairpoint loam, 8 to 25 percent slopes				
	90	Fairpoint	4s	—
FdE—Fairpoint loam, 25 to 35 percent slopes				
	90	Fairpoint	6e	—
FfB—Fairpoint silty clay loam, 0 to 8 percent slopes				
	90	Fairpoint	3s	—

Land Capability Classification--Muskingum County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FfD—Fairpoint silty clay loam, 8 to 25 percent slopes				
	90	Fairpoint	4s	—
FkB—Frankstown variant-Mertz complex, 3 to 8 percent slopes				
	45	Frankstown variant	2e	—
	35	Mertz	2e	—
GcB—Gilpin silt loam, 2 to 6 percent slopes				
	85	Gilpin	2e	—
GdB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GdC—Gilpin silt loam, 8 to 15 percent slopes				
	85	Gilpin	3e	—
GdC2—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GeD2—Gilpin-Upshur complex, 15 to 25 percent slopes				
	50	Gilpin	4e	—
	30	Upshur	6e	—
GeE2—Gilpin-Upshur complex, 25 to 40 percent slopes, eroded				
	40	Gilpin	6e	—
	35	Upshur	7e	—
GfA—Glenford silt loam, 0 to 3 percent slopes				
	85	Glenford	1	—
GfB—Glenford silt loam, 3 to 8 percent slopes				
	85	Glenford	2e	—
GfC2—Glenford silt loam, 8 to 15 percent slopes				
	85	Glenford	3e	—
GnD—Guernsey silt loam, 12 to 18 percent slopes				
	100	Guernsey	4e	—
GpD—Guernsey silt loam, 15 to 25 percent slopes				
	85	Guernsey	4e	—
GpD2—Guernsey silt loam, 15 to 25 percent slopes, eroded				
	80	Guernsey	4e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GsC—Guernsey-Upshur complex, 8 to 15 percent slopes				
	50	Guernsey	3e	—
	35	Upshur	4e	—
GtC2—Guernsey-Upshur silty clay loams, 6 to 15 percent slopes, eroded				
	50	Guernsey	3e	—
	30	Upshur	4e	—
GtD2—Guernsey-Upshur silty clay loams, 15 to 25 percent slopes, eroded				
	45	Guernsey	4e	—
	30	Upshur	6e	—
HaC2—Homewood silt loam, 8 to 15 percent slopes, eroded				
	80	Homewood	3e	—
HaD2—Homewood silt loam, 15 to 20 percent slopes, eroded				
	80	Homewood	4e	—
Hay1AO—Haymond silt loam, 0 to 3 percent slopes, occasionally flooded				
	88	Haymond	2w	—
HoC2—Homewood silt loam, 6 to 12 percent slopes, eroded				
	100	Homewood	3e	—
HoD2—Homewood silt loam, 12 to 18 percent slopes, eroded				
	100	Homewood	4e	—
JtA—Jimtown loam, 0 to 3 percent slopes				
	80	Jimtown	2w	—
KeB—Keene silt loam, 3 to 8 percent slopes				
	90	Keene	2e	—
KeC2—Keene silt loam, 6 to 15 percent slopes, eroded				
	80	Keene	3e	—
KfC—Keene silt loam, 8 to 15 percent slopes				
	85	Keene	3e	—
Kk—Killbuck silt loam, frequently flooded				
	100	Killbuck	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Km—Killbuck silt loam, occasionally flooded				
	85	Killbuck	3w	—
LaC—Lakin loamy fine sand, 8 to 15 percent slopes				
	80	Lakin	4s	—
LbB—Lakin loamy sand, 1 to 8 percent slopes				
	90	Lakin	3s	—
LcD—Lakin-Alford complex, 15 to 25 percent slopes				
	45	Lakin	6s	—
	35	Alford	4e	—
Lk—Lindside silt loam, occasionally flooded				
	80	Lindside	2w	—
Lm—Lobdell loam, channery substratum, occasionally flooded				
	80	Lobdell	2w	—
Lo—Lorain silty clay				
	85	Lorain	3w	—
LpC—Lowell silt loam, 8 to 15 percent slopes				
	85	Lowell	3e	—
LpC2—Lowell silt loam, moderately wet, 8 to 15 percent slopes				
	85	Lowell, moderately wet	3e	—
LpD—Lowell silt loam, 15 to 25 percent slopes				
	85	Lowell	4e	—
LpD2—Lowell silt loam, moderately wet, 15 to 25 percent slopes				
	85	Lowell, moderately wet	4e	—
LrE2—Lowell-Gilpin complex, 25 to 40 percent slopes, eroded				
	45	Lowell	7e	—
	35	Gilpin	7e	—
LrF—Lowell-Gilpin complex, 40 to 70 percent slopes				
	45	Lowell	7e	—
	30	Gilpin	7e	—
Lu—Luray silty clay loam				
	80	Luray	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LwF—Lowell-Westmoreland silt loams, 35 to 70 percent slopes				
	45	Lowell	7e	—
	30	Westmoreland	7e	—
MaB—Markland silt loam, 2 to 6 percent slopes				
	85	Markland	3e	—
MbC2—Markland silty clay loam, 6 to 15 percent slopes, eroded				
	80	Markland	4e	—
McD2—Markland-Glenford complex, 15 to 35 percent slopes, eroded				
	40	Markland	6e	—
	30	Glenford	6e	—
MdA—McGary silt loam, 0 to 3 percent slopes				
	80	Mcgary	3w	—
Me—Melvin silt loam, frequently flooded				
	75	Melvin	3w	—
MkD—Mertz very cherty silt loam, 15 to 35 percent slopes				
	70	Mertz	6e	—
MoB—Morristown silty clay loam, 0 to 8 percent slopes				
	85	Morristown	3s	—
MrB—Morristown shaly silty clay loam, 1 to 15 percent slopes				
	80	Morristown	6s	—
MrD—Morristown shaly silty clay loam, 15 to 25 percent slopes				
	75	Morristown	6s	—
MrF—Morristown shaly silty clay loam, 25 to 70 percent slopes				
	85	Morristown	7e	—
MsB—Morristown silty clay loam, 1 to 8 percent slopes				
	80	Morristown	3s	—
MsC—Morristown silty clay loam, 8 to 15 percent slopes				
	85	Morristown	4s	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MsD—Morristown silty clay loam, 15 to 25 percent slopes				
	80	Morristown	4s	—
MsE—Morristown silty clay loam, 25 to 50 percent slopes				
	80	Morristown	6e	—
MtF—Morristown channery silty clay loam, 25 to 70 percent slopes				
	75	Morristown	7e	—
Ne—Newark silt loam, frequently flooded				
	80	Newark	2w	—
Nn—Nolin silt loam, rarely flooded				
	90	Nolin	1	—
No—Nolin silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Nolin, occasionally flooded	2w	—
Omu1B1—Omulga silt loam, 2 to 6 percent slopes				
	85	Omulga	2e	—
Omu1C1—Omulga silt loam, 6 to 12 percent slopes				
	85	Omulga	3e	—
RaB—Rawson silt loam, 2 to 6 percent slopes				
	75	Rawson	2e	—
RfC—Rigley loam, 8 to 15 percent slopes				
	80	Rigley	3e	—
RgD—Rigley channery loam, 15 to 25 percent slopes				
	80	Rigley	4e	—
RhE—Rigley-Coshocton complex, 25 to 40 percent slopes				
	40	Rigley	7e	—
	35	Coshocton	6e	—
RoF—Rodman gravelly sandy loam, 25 to 70 percent slopes				
	80	Rodman	7s	—
Se—Sebring silt loam				
	80	Sebring	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
St—Stonelick loam, occasionally flooded				
	80	Stonelick	2w	—
Ta—Tioga fine sandy loam, rarely flooded				
	80	Tioga	1	—
Tf—Tioga fine sandy loam, occasionally flooded				
	85	Tioga	1	—
Ud—Udorthents, loamy, hilly				
	70	Udorthents	—	—
Ug—Udorthents, sandy, rolling				
	75	Udorthents	—	—
Uh—Udorthents, sandy-skeletal, steep				
	80	Udorthents	—	—
Uk—Udorthents-Pits complex				
	60	Udorthents	—	—
	20	Pits	—	—
UsB—Urban land-Glenford complex, 2 to 8 percent slopes				
	50	Urban land	—	—
	25	Glenford	—	—
UtA—Urban land-Nolin complex, rarely flooded				
	50	Urban land	—	—
	30	Nolin	—	—
UvB—Urban land-Watertown complex, 1 to 15 percent slopes				
	50	Urban land	—	—
	25	Watertown	—	—
UwC—Urban land-Wellston complex, 5 to 15 percent slopes				
	50	Urban land	—	—
	25	Wellston	—	—
W—Water				
	100	Water	—	—
WaB—Watertown sandy loam, 1 to 8 percent slopes				
	80	Watertown	3s	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WaC—Watertown sandy loam, 8 to 15 percent slopes				
	80	Watertown	3e	—
WbB—Watertown sandy loam, 2 to 6 percent slopes				
	90	Watertown	3s	—
WbC—Watertown sandy loam, 6 to 15 percent slopes				
	90	Watertown	3e	—
WhB—Wellston silt loam, 3 to 8 percent slopes				
	85	Wellston	2e	—
WhC—Wellston silt loam, 8 to 15 percent slopes				
	85	Wellston	3e	—
WhC2—Wellston silt loam, 8 to 15 percent slopes				
	85	Wellston	3e	—
WmB—Westgate silt loam, 2 to 6 percent slopes				
	80	Westgate	2e	—
WmC2—Westgate silt loam, 6 to 15 percent slopes, eroded				
	80	Westgate	3e	—
WnB—Westmore silt loam, 1 to 8 percent slopes				
	80	Westmore	2e	—
WnC—Westmore silt loam, 8 to 15 percent slopes				
	85	Westmore	3e	—
WoB—Woodsfield silt loam, 1 to 6 percent slopes				
	85	Woodsfield	2e	—
WoC—Woodsfield silt loam, 6 to 15 percent slopes				
	85	Woodsfield	3e	—
WrF—Westmoreland-Berks complex, 40 to 70 percent slopes				
	55	Westmoreland	7e	—
	30	Berks	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WtC—Westmoreland silt loam, 8 to 15 percent slopes				
	90	Westmoreland	3e	—
WtC2—Westmoreland silt loam, 8 to 15 percent slopes				
	80	Westmoreland	3e	—
WtD—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—
WtD2—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—
WtE—Westmoreland silt loam, 25 to 35 percent slopes				
	80	Westmoreland	6e	—
WuC2—Westmoreland-Guernsey silt loams, 8 to 15 percent slopes, eroded				
	45	Westmoreland	3e	—
	35	Guernsey	3e	—
WuD2—Westmoreland-Guernsey silt loams, 15 to 25 percent slopes, eroded				
	45	Westmoreland	4e	—
	35	Guernsey	4e	—
WuE2—Westmoreland-Guernsey silt loams, 25 to 40 percent slopes, eroded				
	45	Westmoreland	6e	—
	35	Guernsey	6e	—
WvD—Westmoreland-Urban land complex, 15 to 35 percent slopes				
	50	Westmoreland	—	—
	20	Urban land	—	—
ZnC—Zanesville silt loam, 8 to 15 percent slopes				
	85	Zanesville	3e	—
ZnB—Zanesville silt loam, 2 to 6 percent slopes				
	80	Zanesville	2e	—
ZnC2—Zanesville silt loam, 6 to 15 percent slopes, eroded				
	75	Zanesville	3e	—

Data Source Information

Soil Survey Area: Muskingum County, Ohio
Survey Area Data: Version 10, Sep 19, 2014