

## 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—Pike County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AcE2—Alexandria silt loam, 20 to 35 percent slopes, eroded				
	90	Alexandria	6e	—
AgD—Allegheny Variant loam, 15 to 25 percent slopes				
	85	Allegheny variant	4e	—
Ah—Algiers silt loam				
	95	Algiers	2w	—
BdC—Blairton-Rarden-Gilpin association, rolling				
	30	Blairton	4e	—
	25	Rarden	6e	—
	20	Gilpin	3e	—
BrB2—Bratton silt loam, 3 to 8 percent slopes, eroded				
	90	Bratton	2e	—
BtC2—Bratton-Opequon complex, 8 to 15 percent slopes, eroded				
	45	Bratton	4e	—
	40	Opequon	4e	—
CaE2—Cana silt loam, 20 to 35 percent slopes, eroded				
	90	Cana	6e	—
Cf—Clifty silt loam, occasionally flooded				
	85	Clifty	2w	—
ChD—Clymer loam, 15 to 25 percent slopes				
	85	Clymer	4e	—
CkC—Clymer silt loam, 8 to 15 percent slopes				
	85	Clymer	3e	—
CmB—Coolville silt loam, 2 to 6 percent slopes				
	90	Coolville	2e	—

Land Capability Classification--Pike County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CmC2—Coolville silt loam, 6 to 12 percent slopes, eroded				
	90	Coolville	3e	—
CoB—Coolville silt loam, 1 to 8 percent slopes				
	90	Coolville	2e	—
CoC—Coolville silt loam, 8 to 15 percent slopes				
	85	Coolville	3e	—
CpC—Coolville-Blairton association, rolling				
	50	Coolville	3e	—
	30	Blairton	4e	—
CtC—Coolville-Rarden silt loams, 8 to 15 percent slopes				
	65	Coolville	3e	—
	25	Rarden	4e	—
CwC2—Cruze silt loam, 6 to 12 percent slopes, eroded				
	90	Cruze	3e	—
CwE—Cruze silt loam, 20 to 35 percent slopes				
	90	Cruze	6e	—
Dol1A1—Doles silt loam, 0 to 2 percent slopes				
	85	Doles	2w	—
En—Elkinsville silt loam, rarely flooded				
	85	Elkinsville	1	—
ErC—Ernest silt loam, 8 to 15 percent slopes				
	90	Ernest	3e	—
FoA—Fox loam, 0 to 2 percent slopes				
	90	Fox	2s	—
FoB—Fox loam, 2 to 6 percent slopes				
	85	Fox	2e	—
FoC—Fox loam, 6 to 12 percent slopes				
	90	Fox	3e	—
FoC2—Fox loam, 6 to 12 percent slopes, eroded				
	85	Fox	3e	—
Ge—Genesee silt loam, occasionally flooded				
	85	Genesee	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Gf—Gessie silt loam, occasionally flooded				
	80	Gessie	2w	—
GpB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GpC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GpD—Gilpin silt loam, 15 to 25 percent slopes				
	85	Gilpin	4e	—
GtC—Gilpin-Tilsit complex, 6 to 12 percent slopes				
	60	Gilpin	3e	—
	30	Tilsit	3e	—
Ha—Haymond silt loam, occasionally flooded				
	85	Haymond	2w	—
Hu—Huntington silt loam, occasionally flooded				
	85	Huntington	2w	—
Kn—Kinn silt loam, occasionally flooded				
	85	Kinn	2w	—
Lah1C1—Latham silt loam, 8 to 15 percent slopes				
	90	Latham	4e	—
Lah1D1—Latham silt loam, 15 to 25 percent slopes				
	85	Latham	6e	—
LbD2—Latham silt loam, 12 to 20 percent slopes, eroded				
	90	Latham	6e	—
LhW1D1—Latham-Wharton silt loams, 15 to 25 percent slopes				
	45	Latham	6e	—
	35	Wharton	4e	—
LrB—Libre silt loam, 2 to 6 percent slopes				
	90	Libre	2e	—
MaB2—Markland silty clay loam, 3 to 8 percent slopes, eroded				
	85	Markland	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MaC2—Markland silty clay loam, 8 to 15 percent slopes, eroded				
	85	Markland	4e	—
MaD2—Markland silty clay loam, 15 to 25 percent slopes, eroded				
	90	Markland	6e	—
MbC2—Markland silty clay loam, 6 to 12 percent slopes, eroded				
	85	Markland	4e	—
MbD2—Markland silty clay loam, 12 to 20 percent slopes, eroded				
	85	Markland	6e	—
McB—Markland silt loam, 2 to 6 percent slopes				
	95	Markland	3e	—
McC2—Markland silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Markland	4e	—
McD2—Markland silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Markland	6e	—
MdA—McGary silt loam, 0 to 2 percent slopes				
	90	Mcgary	3w	—
Mh—Martinsville loam, rarely flooded				
	90	Martinsville	1	—
MkA—McGary silt loam, 0 to 4 percent slopes				
	85	Mcgary	3w	—
Mn—Melvin silt loam, occasionally flooded				
	90	Melvin	3w	—
MoD—Miami Variant silt loam, 15 to 30 percent slopes				
	90	Miami variant	6e	—
MpD3—Miamian clay loam, 15 to 25 percent slopes, severely eroded				
	85	Miamian	6e	—
Mr—Montgomery Variant silt loam, frequently flooded				
	90	Montgomery variant	3w	—
Mt—Mentor silt loam, rarely flooded				
	90	Mentor	1	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
NeC—Negley loam, 6 to 12 percent slopes				
	100	Negley	3e	—
NeC2—Negley loam, 6 to 12 percent slopes, eroded				
	90	Negley	3e	—
NeD2—Negley loam, 12 to 20 percent slopes, eroded				
	90	Negley	4e	—
NeE2—Negley loam, 20 to 35 percent slopes, eroded				
	90	Negley	6e	—
NgC—Negley loam, 8 to 15 percent slopes				
	85	Negley	3e	—
NgD—Negley loam, 15 to 25 percent slopes				
	85	Negley	6e	—
NgE—Negley loam, 25 to 35 percent slopes				
	85	Negley	6e	—
NhB—Negley silt loam, 2 to 6 percent slopes				
	100	Negley	2e	—
OkC2—Omulga silt loam, 6 to 12 percent slopes, eroded				
	90	Omulga	3e	—
Omu1A1—Omulga silt loam, 0 to 2 percent slopes				
	85	Omulga	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	—
OoC2—Opequon-Bratton silt loams, 8 to 15 percent slopes, eroded				
	45	Opequon	4e	—
	40	Bratton	3e	—
OpD2—Opequon silt loam, 15 to 30 percent slopes, eroded				
	85	Opequon	6e	—

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			Nonirrigated	Irrigated
Or—Orrville silt loam, frequently flooded	85	Orrville	2w	—
OsD2—Opequon silty clay loam, 15 to 25 percent slopes, eroded	85	Opequon	6e	—
OvB—Otwell silt loam, 2 to 6 percent slopes	90	Otwell	2e	—
OwA—Otwell silt loam, 0 to 3 percent slopes	90	Otwell	2w	—
OwB—Otwell silt loam, 3 to 8 percent slopes	85	Otwell	2e	—
PaA—Parke silt loam, 0 to 3 percent slopes	90	Parke	1	—
PaB—Parke silt loam, 3 to 8 percent slopes	85	Parke	2e	—
Pe—Peoga silt loam	90	Peoga	3w	—
Pf—Piopolis silt loam, frequently flooded	85	Piopolis	3w	—
Pg—Pits, gravel	100	Pits	—	—
Pn—Pits, quarry	100	Pits	—	—
Po—Pope sandy loam, frequently flooded	85	Pope	2w	—
PrB—Princeton fine sandy loam, 3 to 8 percent slopes	95	Princeton	2e	—
PrC—Princeton fine sandy loam, 8 to 15 percent slopes	90	Princeton	3e	—
PrD—Princeton fine sandy loam, 15 to 30 percent slopes	85	Princeton	6e	—
Pu—Purdy Variant silt loam	90	Purdy variant	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RbA—Rainsboro silt loam, 0 to 2 percent slopes				
	90	Rainsboro	2w	—
RdC—Rarden silt loam, 8 to 15 percent slopes				
	85	Rarden	4e	—
RdC2—Rarden silt loam, 8 to 15 percent slopes, eroded				
	85	Rarden	4e	—
RdD—Rarden silt loam, 15 to 25 percent slopes				
	85	Rarden	6e	—
RhC—Richland silt loam, clayey substratum, 8 to 15 percent slopes				
	80	Richland	3e	—
RkE—Rigley-Clymer association, steep				
	50	Rigley	7e	—
	25	Clymer	6e	—
RnF—Rigley-Rock outcrop association, very steep				
	60	Rigley	7e	—
	15	Rock outcrop	—	—
RrW1C2—Rarden-Wharton silt loams, 8 to 15 percent slopes, eroded				
	45	Rarden	4e	—
	40	Wharton	3e	—
SgE—Shelocta-Cruze-Weikert association, steep				
	40	Shelocta	6e	—
	30	Cruze	6e	—
	20	Weikert	7e	—
ShD—Shelocta silt loam, 15 to 25 percent slopes				
	85	Shelocta	4e	—
Sk—Skidmore silt loam, occasionally flooded				
	85	Skidmore	3s	—
SIF—Shelocta-Brownsville association, very steep				
	50	Shelocta	7e	—
	35	Brownsville	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
SnF—Shelocta-Brownsville association, steep				
	40	Shelocta	7e	—
	35	Brownsville	6e	—
SoF—Shelocta-Rigley association, steep				
	50	Shelocta	7e	—
	25	Rigley	7e	—
SpF—Shelocta-Latham association, steep				
	50	Shelocta	7e	—
	25	Latham	6e	—
Sq—Shoals silt loam				
	95	Shoals	2w	—
SrA—Skidmore Variant gravelly loam, 0 to 3 percent slopes				
	85	Skidmore variant	2s	—
SrB—Skidmore Variant gravelly loam, 3 to 8 percent slopes				
	85	Skidmore variant	2e	—
Ss—Stendal silt loam, occasionally flooded				
	90	Stendal	2w	—
St—Stonelick loam, occasionally flooded				
	90	Stonelick	2w	—
SuB—Spargus channery silt loam, 2 to 6 percent slopes				
	85	Spargus	2e	—
SWLZE1—Shelocta-Wharton-Latham association, steep				
	45	Shelocta	7e	—
	30	Wharton	6e	—
	15	Latham	6e	—
TbA—Taggart silt loam, 0 to 2 percent slopes				
	85	Taggart	2w	—
TgA—Taggart silt loam, 0 to 4 percent slopes				
	85	Taggart	2w	—
Th—Taggart silt loam, rarely flooded				
	85	Taggart	2w	—
TkA—Tilsit silt loam, 0 to 4 percent slopes				
	85	Tilsit	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
TnA—Tilsit silt loam, 0 to 3 percent slopes				
	85	Tilsit	2w	—
TrD—Trappist silt loam, 15 to 25 percent slopes				
	85	Trappist	6e	—
TsF—Trappist-Shelocta association, steep				
	40	Trappist	7e	—
	35	Shelocta	7e	—
TtC2—Trappist-Muse silt loams, 6 to 12 percent slopes, moderately eroded				
	60	Trappist	3e	—
	40	Muse	3e	—
TyA—Tyler silt loam, 0 to 2 percent slopes				
	90	Tyler	3w	—
UoA—Urbanland-Omulga complex, 0 to 6 percent slopes				
	70	Urban land	—	—
	20	Omulga	—	—
W—Water				
	100	Water	—	—
WcB—Wellston silt loam, 3 to 8 percent slopes				
	85	Wellston	2e	—
WeB—Wernock Variant silt loam, 3 to 8 percent slopes				
	90	Wernock variant	2e	—
WhC—Wharton silt loam, 8 to 15 percent slopes				
	80	Wharton	3e	—
WhD—Wharton silt loam, 15 to 25 percent slopes				
	80	Wharton	4e	—
Wm—Wilbur silt loam, occasionally flooded				
	85	Wilbur	2w	—
Wya1B1—Wyatt silt loam, 2 to 6 percent slopes				
	85	Wyatt	3e	—
Wya3C2—Wyatt silty clay loam, 6 to 12 percent slopes, eroded				
	85	Wyatt	4e	—

## Data Source Information

Soil Survey Area: Pike County, Ohio  
Survey Area Data: Version 17, Sep 19, 2014