

## 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—Preble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CeA—Celina silt loam, 0 to 2 percent slopes				
	85	Celina	1	—
CeB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—
CeB2—Celina silt loam, 2 to 6 percent slopes, eroded				
	85	Celina	2e	—
CoA—Corwin silt loam, 0 to 2 percent slopes				
	90	Corwin	1	—
CtA—Crosby-Celina silt loams, 0 to 2 percent slopes				
	60	Crosby	2w	—
	30	Celina	1	—
CtB—Crosby-Celina silt loams, 2 to 4 percent slopes				
	50	Crosby	2e	—
	40	Celina	2e	—
CvA—Crosby-Lewisburg silt loams, 0 to 2 percent slopes				
	60	Crosby	2w	—
	30	Lewisburg	2s	—
CyA—Cyclone silt loam, 0 to 2 percent slopes				
	85	Cyclone	2w	—
DaA—Dana silt loam, 0 to 2 percent slopes				
	90	Dana	1	—
DaB—Dana silt loam, 2 to 6 percent slopes				
	90	Dana	2e	—
EeA—Eel silt loam, gravelly substratum, 0 to 1 percent slopes, occasionally flooded				
	85	Eel	2w	—

Land Capability Classification--Preble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EgA—Eldean gravelly loam, 0 to 2 percent slopes				
	90	Eldean	2s	—
EgB—Eldean gravelly loam, 2 to 6 percent slopes				
	90	Eldean	2e	—
EgB2—Eldean gravelly loam, 2 to 6 percent slopes, eroded				
	90	Eldean	2e	—
EhC3—Eldean gravelly clay loam, 6 to 12 percent slopes, severely eroded				
	85	Eldean	4e	—
EhD3—Eldean gravelly clay loam, 12 to 18 percent slopes, severely eroded				
	85	Eldean	6e	—
EkA—Eldean loam, 0 to 2 percent slopes				
	90	Eldean	2s	—
EkB—Eldean loam, 2 to 6 percent slopes				
	90	Eldean	2e	—
EkB2—Eldean loam, 2 to 6 percent slopes, eroded				
	90	Eldean	2e	—
FcA—Fincastle silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Fincastle	2w	—
FdA—Fincastle silt loam, bedrock substratum, 0 to 2 percent slopes				
	85	Fincastle	2w	—
FmA—Fox silt loam, till substratum, 0 to 2 percent slopes				
	90	Fox	2s	—
FmB—Fox silt loam, till substratum, 2 to 6 percent slopes				
	90	Fox	2e	—
FmB2—Fox silt loam, till substratum, 2 to 6 percent slopes, eroded				
	90	Fox	2e	—

Land Capability Classification--Preble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HeF2--Hennepin-Miamian silt loams, 25 to 50 percent slopes, eroded				
	55	Hennepin	7e	—
	45	Miamian	7e	—
HwE2--Hennepin-Wynn silt loams, 18 to 25 percent slopes, eroded				
	55	Hennepin	6e	—
	40	Wynn	6e	—
HwF2--Hennepin-Wynn silt loams, 25 to 50 percent slopes, eroded				
	55	Hennepin	7e	—
	40	Wynn	7e	—
KeC2--Kendallville-Eldean silt loams, 6 to 12 percent slopes, eroded				
	60	Kendallville	3e	—
	30	Eldean	3e	—
KeD2--Kendallville-Eldean silt loams, 12 to 18 percent slopes, eroded				
	50	Kendallville	4e	—
	30	Eldean	4e	—
KnA--Kokomo silt loam, 0 to 1 percent slopes				
	90	Kokomo	2w	—
KoA--Kokomo silty clay loam, 0 to 1 percent slopes				
	90	Kokomo	2w	—
LeB--Lewisburg-Celina silt loams, 2 to 6 percent slopes				
	50	Lewisburg	2e	—
	40	Celina	2e	—
LfB2--Lewisburg-Celina clay loams, 2 to 6 percent slopes, eroded				
	70	Lewisburg	2e	—
	20	Celina	2e	—
LgC3--Lewisburg clay loam, 6 to 12 percent slopes, severely eroded				
	90	Lewisburg	4e	—
LpA--Lippincott silty clay loam, 0 to 2 percent slopes				
	80	Lippincott	2w	—

Land Capability Classification--Preble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MaA—Medway silt loam, 0 to 1 percent slopes, occasionally flooded				
	95	Medway	2w	—
MbB2—Miami silt loam, 2 to 6 percent slopes, eroded				
	85	Miami, eroded	2e	—
McE2—Miami-Kendallville silt loams, 18 to 25 percent slopes, eroded				
	55	Miami	6e	—
	40	Kendallville	6e	—
McF2—Miami-Kendallville silt loams, 25 to 50 percent slopes, eroded				
	50	Miami	7e	—
	40	Kendallville	7e	—
MdC2—Miami loam, 6 to 12 percent slopes, eroded				
	95	Miami	3e	—
MdD2—Miami loam, 12 to 18 percent slopes, eroded				
	95	Miami	4e	—
MeC—Miamian silt loam, 6 to 12 percent slopes				
	85	Miamian	3e	—
MeC2—Miamian silt loam, 6 to 12 percent slopes, eroded				
	85	Miamian	3e	—
MeD2—Miamian silt loam, 12 to 18 percent slopes, eroded				
	85	Miamian	4e	—
MfB—Miamian-Celina silt loams, 2 to 6 percent slopes				
	60	Miamian	2e	—
	30	Celina	2e	—
MfB2—Miamian-Celina silt loams, 2 to 6 percent slopes, eroded				
	60	Miamian	2e	—
	30	Celina	2e	—
MgE2—Miamian-Kendallville silt loams, 18 to 25 percent slopes, eroded				
	70	Miamian	6e	—
	20	Kendallville	6e	—

Land Capability Classification--Preble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MgF2—Miamian-Kendallville silt loams, 25 to 50 percent slopes, eroded				
	70	Miamian	7e	—
	20	Kendallville	7e	—
MhC3—Miamian-Losantville clay loams, 6 to 12 percent slopes, severely eroded				
	60	Miamian	4e	—
	30	Losantville	4e	—
MhD3—Miamian-Losantville clay loams, 12 to 18 percent slopes, severely eroded				
	60	Miamian	6e	—
	30	Losantville	6e	—
MmE2—Miamian-Hennepin silt loams, 18 to 25 percent slopes, eroded				
	70	Miamian	6e	—
	30	Hennepin	6e	—
MnE3—Miamian-Hennepin clay loams, 18 to 25 percent slopes, severely eroded				
	70	Miamian	7e	—
	30	Hennepin	7e	—
MpA—Milford silty clay loam, 0 to 2 percent slopes				
	100	Milford	2w	—
MrA—Milford silty clay loam, gravelly substratum, 0 to 2 percent slopes				
	100	Milford	2w	—
MsA—Millsdale silt loam, 0 to 2 percent slopes				
	90	Millsdale	4w	—
MtA—Millsdale silty clay loam, 0 to 2 percent slopes				
	90	Millsdale	4w	—
MuA—Milton silt loam, 0 to 2 percent slopes				
	95	Milton	2s	—
MuB—Milton silt loam, 2 to 6 percent slopes				
	95	Milton	2e	—
MuB2—Milton silt loam, 2 to 6 percent slopes, eroded				
	95	Milton	2e	—

Land Capability Classification--Preble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MuC2—Milton silt loam, 6 to 12 percent slopes, eroded				
	95	Milton	3e	—
MuD2—Milton silt loam, 12 to 18 percent slopes, eroded				
	90	Milton	4e	—
MuE2—Milton silt loam, 18 to 25 percent slopes, eroded				
	95	Milton	6e	—
MwA—Morningsun silt loam, 0 to 2 percent slopes				
	85	Morningsun	1	—
MxA—Morningsun-Xenia silt loams, 0 to 2 percent slopes				
	70	Morningsun	1	—
	20	Xenia	1	—
MxB—Morningsun-Xenia silt loams, 2 to 6 percent slopes				
	60	Morningsun	2e	—
	20	Xenia	2e	—
MxB2—Morningsun-Xenia silt loams, 2 to 6 percent slopes, eroded				
	50	Morningsun	2e	—
	30	Xenia	2e	—
MyA—Mahalasville silt loam, 0 to 2 percent slopes				
	100	Mahalasville	2w	—
OcA—Ockley silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Ockley	1	—
OcB—Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes				
	85	Ockley	2e	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—
Pq—Pits, quarry				
	100	Pits, quarry	—	—
PtB—Plattville silt loam, moderately wet, 2 to 6 percent slopes				
	85	Plattville	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RaA—Rainsville silt loam, 0 to 2 percent slopes				
	85	Rainsville	1	—
RaB—Rainsville silt loam, 2 to 6 percent slopes				
	85	Rainsville	2e	—
RaB2—Rainsville silt loam, 2 to 6 percent slopes, eroded				
	85	Rainsville	2e	—
RcA—Randolph silt loam, 0 to 2 percent slopes				
	95	Randolph	3w	—
RcB—Randolph silt loam, 2 to 6 percent slopes				
	90	Randolph	3e	—
RnE2—Rodman gravelly loam, 18 to 25 percent slopes, eroded				
	85	Rodman	7s	—
RnF2—Rodman gravelly loam, 25 to 50 percent slopes, eroded				
	85	Rodman	7s	—
RoE2—Rodman-Kendallville complex, 18 to 25 percent slopes, eroded				
	50	Rodman	7s	—
	40	Kendallville	6e	—
RoF2—Rodman-Kendallville complex, 25 to 50 percent slopes, eroded				
	50	Rodman	7s	—
	40	Kendallville	7e	—
RpA—Rossburg silt loam, moderately wet, sandy substratum, 0 to 1 percent slopes, occasionally flooded				
	85	Rossburg	2w	—
RuB—Russell-Miamian silt loams, 2 to 6 percent slopes				
	70	Russell	2e	—
	20	Miamian	2e	—
RuB2—Russell-Miamian silt loams, 2 to 6 percent slopes, eroded				
	50	Russell	2e	—
	40	Miamian	2e	—
SeA—Savona silt loam, 0 to 2 percent slopes				
	85	Savona	2w	—

Land Capability Classification--Preble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
SnA—Sloan silt loam, sandy substratum, 0 to 1 percent slopes, frequently flooded				
	85	Sloan	3w	—
StA—Stonelick loam, gravelly substratum, 0 to 1 percent slopes, frequently flooded				
	90	Stonelick	3w	—
SvA—Sugarvalley silt loam, 0 to 2 percent slopes				
	90	Sugarvalley	2w	—
SwA—Sugarvalley-Fincastle silt loams, 0 to 2 percent slopes				
	60	Sugarvalley	2w	—
	30	Fincastle	2w	—
ThA—Thackery silt loam, 0 to 2 percent slopes				
	95	Thackery	1	—
ThB—Thackery silt loam, 2 to 6 percent slopes				
	95	Thackery	2e	—
Ud—Udorthents				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
WbA—Warsaw loam, 0 to 2 percent slopes				
	90	Warsaw	2s	—
WnA—Westland silt loam, 0 to 2 percent slopes				
	85	Westland	2w	—
WyB—Wynn silt loam, 2 to 6 percent slopes				
	100	Wynn	2e	—
WyB2—Wynn silt loam, 2 to 6 percent slopes, eroded				
	100	Wynn	2e	—
WyC2—Wynn silt loam, 6 to 12 percent slopes, eroded				
	100	Wynn	3e	—
WyD2—Wynn silt loam, 12 to 18 percent slopes, eroded				
	95	Wynn	4e	—
XeA—Xenia silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Xenia	1	—

Land Capability Classification--Preble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
XeB—Xenia silt loam, 2 to 6 percent slopes				
	85	Xenia	2e	—
XeB2—Xenia silt loam, 2 to 6 percent slopes, eroded				
	85	Xenia	2e	—
XfB—Xenia silt loam, bedrock substratum, 2 to 6 percent slopes				
	85	Xenia	2e	—

### Data Source Information

Soil Survey Area: Preble County, Ohio  
 Survey Area Data: Version 13, Sep 19, 2014