

## 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—Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AmF—Amanda loam, 35 to 70 percent slopes				
	95	Amanda	7e	—
BeB—Bennington silt loam, 2 to 6 percent slopes				
	85	Bennington	2e	—
BgB—Bogart loam, 2 to 6 percent slopes				
	90	Bogart	2e	—
BgC—Bogart loam, 6 to 12 percent slopes				
	95	Bogart	3e	—
BrB—Bogart silt loam, 2 to 6 percent slopes				
	80	Bogart	2e	—
BrC—Bogart silt loam, 6 to 12 percent slopes				
	80	Bogart	3e	—
BtB—Bogart loam, till substratum, 2 to 6 percent slopes				
	85	Bogart	2e	—
BtC2—Bogart loam, till substratum, 6 to 12 percent slopes, moderately eroded				
	90	Bogart	3e	—
BtF4F1—Bethesda and Fairpoint channery silt loams, 25 to 70 percent slopes				
	60	Bethesda, unreclaimed	7e	—
	40	Fairpoint, reclaimed	7e	—
Bth4B1—Bethesda channery silt loam, 0 to 8 percent slopes				
	95	Bethesda, unreclaimed	3s	—
Bth4D1—Bethesda channery silt loam, 8 to 25 percent slopes				
	95	Bethesda, unreclaimed	4e	—
Ca—Canadice silty clay loam				
	100	Canadice	4w	—

Land Capability Classification--Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CdB—Canfield silt loam, 2 to 6 percent slopes				
	90	Canfield	2e	—
CdC—Canfield silt loam, 6 to 12 percent slopes				
	90	Canfield	3e	—
CdC2—Canfield silt loam, 6 to 12 percent slopes, eroded				
	90	Canfield, eroded	3e	—
CdD—Canfield silt loam, 12 to 20 percent slopes				
	90	Canfield	4e	—
CdE—Canfield silt loam, 20 to 35 percent slopes				
	90	Canfield	6e	—
CeB—Canfield-Urban land complex, 2 to 6 percent slopes				
	45	Canfield	2e	—
	35	Urban land	8	—
CgB—Cardington silt loam, 2 to 6 percent slopes				
	95	Cardington	2e	—
CgC2—Cardington silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Cardington	3e	—
Ch—Carlisle muck				
	100	Carlisle	3w	—
Ck—Chagrin loam				
	90	Chagrin	2w	—
CIB—Chili gravelly loam, 2 to 6 percent slopes				
	100	Chili	2e	—
CIC—Chili gravelly loam, 6 to 12 percent slopes				
	95	Chili	3e	—
CID—Chili gravelly loam, 12 to 18 percent slopes				
	100	Chili	4e	—
CmB—Chili loam, 2 to 6 percent slopes				
	95	Chili	2e	—
CmC—Chili loam, 6 to 12 percent slopes				
	95	Chili	3e	—

Land Capability Classification--Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CnE—Chili and Conotton gravelly soils, 18 to 25 percent slopes				
	55	Chili	6e	—
	45	Conotton	7e	—
CnF—Chili and Conotton gravelly soils, 25 to 50 percent slopes				
	55	Chili	7e	—
	45	Conotton	7e	—
CoB—Chili-Urban land complex, undulating				
	50	Chili	—	—
	45	Urban land	—	—
CoC—Chili-Urban land complex, rolling				
	50	Chili	—	—
	45	Urban land	—	—
CsA—Chili silt loam, 0 to 2 percent slopes				
	90	Chili	2s	—
CsB—Chili silt loam, 2 to 6 percent slopes				
	90	Chili	2e	—
CsC—Chili silt loam, 6 to 12 percent slopes				
	90	Chili	3e	—
Ct—Condit silt loam				
	90	Condit	3w	—
Da—Damascus loam				
	93	Damascus	3w	—
Dc—Damascus loam, till substratum				
	90	Damascus	3w	—
DkC—DeKalb very stony loam, 2 to 12 percent slopes				
	100	DeKalb	6s	—
DkE—DeKalb very stony loam, 12 to 25 percent slopes				
	90	DeKalb	6s	—
DkF—DeKalb very stony loam, 25 to 50 percent slopes				
	90	DeKalb	7s	—
EIB—Ellsworth silt loam, 2 to 6 percent slopes				
	85	Ellsworth	2e	—

Land Capability Classification--Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EIC—Ellsworth silt loam, 6 to 12 percent slopes				
	90	Ellsworth	3e	—
EIC2—Ellsworth silt loam, 6 to 12 percent slopes, eroded				
	90	Ellsworth, eroded	3e	—
EID2—Ellsworth silt loam, 12 to 18 percent slopes, eroded				
	90	Ellsworth, eroded	4e	—
EIE2—Ellsworth silt loam, 18 to 25 percent slopes, eroded				
	90	Ellsworth, eroded	4e	—
EIF—Ellsworth silt loam, 25 to 70 percent slopes				
	85	Ellsworth	7e	—
EsF3—Ellsworth silty clay loam, 25 to 50 percent slopes, severely eroded				
	90	Ellsworth, severely eroded	7e	—
EuB—Ellsworth-Urban land complex, 2 to 6 percent slopes				
	45	Ellsworth	2e	—
	30	Urban land	8	—
FaB—Fairpoint silty clay loam, 0 to 8 percent slopes				
	90	Fairpoint	3s	—
FcA—Fitchville silt loam, 0 to 2 percent slopes				
	90	Fitchville	2w	—
FcB—Fitchville silt loam, 2 to 6 percent slopes				
	90	Fitchville	2e	—
FeA—Fluvaquents, silty, 0 to 1 percent slopes, frequently flooded				
	100	Fluvaquents, silty	5w	—
FhB—Fitchville silt loam, till substratum, 2 to 6 percent slopes				
	95	Fitchville	2e	—
FIB—Fitchville-Urban land complex				
	50	Fitchville	—	—
	40	Urban land	—	—

Land Capability Classification--Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Fpt4B1—Fairpoint channery silt loam, 0 to 8 percent slopes				
	95	Fairpoint, reclaimed	3s	—
Fpt4D1—Fairpoint channery silt loam, 8 to 25 percent slopes				
	95	Fairpoint, reclaimed	4e	—
Fr—Frenchtown silt loam				
	90	Frenchtown	3w	—
GbB—Geeburg silt loam, 2 to 6 percent slopes				
	95	Geeburg	3e	—
GbB2—Geeburg silt loam, 2 to 6 percent slopes, moderately eroded				
	95	Geeburg	3e	—
GbC—Geeburg silt loam, 6 to 12 percent slopes				
	95	Geeburg	4e	—
GbD—Geeburg silt loam, 12 to 18 percent slopes				
	90	Geeburg	6e	—
GeC2—Geeburg silty clay loam, 6 to 12 percent slopes, moderately eroded				
	100	Geeburg	4e	—
GeC3—Geeburg silty clay loam, 6 to 12 percent slopes, severely eroded				
	100	Geeburg	6e	—
GeD2—Geeburg silty clay loam, 12 to 18 percent slopes, moderately eroded				
	100	Geeburg	6e	—
GeE2—Geeburg silty clay loam, 18 to 25 percent slopes, moderately eroded				
	90	Geeburg	7e	—
GfB—Glenford silt loam, 2 to 6 percent slopes				
	95	Glenford	2e	—
GfC2—Glenford silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Glenford	3e	—
GsF—Gilpin-Weikert complex, 25 to 70 percent slopes				
	45	Gilpin	7e	—
	35	Weikert	7e	—

Land Capability Classification--Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HeD—Hazleton channery loam, 15 to 25 percent slopes				
	85	Hazleton	4e	—
HeE—Hazleton channery loam, 25 to 40 percent slopes				
	90	Hazleton	6e	—
HI—Holly silt loam				
	90	Holly	3w	—
HoB—Hornell silt loam, 2 to 6 percent slopes				
	100	Hornell	3w	—
JmB—Jimtown silt loam, 2 to 6 percent slopes				
	80	Jimtown	2e	—
JtA—Jimtown loam, 0 to 2 percent slopes				
	85	Jimtown	2w	—
JtB—Jimtown loam, 2 to 6 percent slopes				
	85	Jimtown	2e	—
JuB—Jimtown loam, till substratum, 2 to 6 percent slopes				
	85	Jimtown	2e	—
JwB—Jimtown-Urban land complex				
	55	Jimtown	—	—
	35	Urban land	—	—
Km—Kerston muck				
	100	Kerston	3w	—
KnD—Kensington silt loam, 15 to 25 percent slopes				
	90	Kensington	4e	—
Lb—Lobdell loam				
	95	Lobdell	2w	—
Lc—Lorain silty clay loam				
	100	Lorain	3w	—
LdB—Loudonville loam, 2 to 6 percent slopes				
	85	Loudonville	2e	—
LdC2—Loudonville loam, 6 to 12 percent slopes, moderately eroded				
	85	Loudonville	3e	—

Land Capability Classification--Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LdD2—Loudonville loam, 12 to 18 percent slopes, moderately eroded				
	90	Loudonville	4e	—
LdE2—Loudonville loam, 18 to 25 percent slopes, moderately eroded				
	85	Loudonville	6e	—
LnA—Lorain silt loam, 0 to 2 percent slopes				
	80	Lorain	3w	—
LoF—Loudonville gravelly silt loam, 25 to 50 percent slopes				
	95	Loudonville	6e	—
LrB—Loudonville-Urban land complex, undulating				
	55	Loudonville	—	—
	45	Urban land	—	—
LrC—Loudonville-Urban land complex, rolling				
	55	Loudonville	—	—
	45	Urban land	—	—
Ls—Luray silt loam				
	100	Luray	2w	—
Ly—Luray silty clay loam				
	100	Luray	2w	—
McC—Mechanicsburg silt loam, 6 to 15 percent slopes				
	90	Mechanicsburg	3e	—
MgA—Mahoning silt loam, 0 to 2 percent slopes				
	85	Mahoning	3w	—
MgB—Mahoning silt loam, 2 to 6 percent slopes				
	85	Mahoning	3w	—
MhB—Mahoning-Urban land complex, 2 to 6 percent slopes				
	45	Mahoning	3w	—
	30	Urban land	8	—
Mn—Marengo silty clay loam				
	100	Marengo	2w	—
MsB—Muskingum channery silt loam, 2 to 6 percent slopes				
	100	Muskingum	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MsC2—Muskingum channery silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Muskingum	3e	—
MsD2—Muskingum channery silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Muskingum	4e	—
MsE2—Muskingum channery silt loam, 18 to 25 percent slopes, moderately eroded				
	95	Muskingum	4e	—
MsF2—Muskingum channery silt loam, 25 to 50 percent slopes, moderately eroded				
	95	Muskingum	7e	—
Od—Olmsted loam				
	90	Olmsted	2w	—
Ov—Orrville silt loam				
	85	Orrville	2w	—
Pa—Papakating silt loam				
	95	Papakating	3w	—
Pc—Papakating silty clay loam				
	95	Papakating	3w	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—
Pu—Pits, quarry				
	100	Pits, quarry	—	—
RaA—Ravenna silt loam, 0 to 2 percent slopes				
	95	Ravenna	2w	—
RaB—Ravenna silt loam, 2 to 6 percent slopes				
	95	Ravenna	2e	—
ReA—Remsen silt loam, 0 to 2 percent slopes				
	90	Remsen	3w	—
ReB—Remsen silt loam, 2 to 6 percent slopes				
	90	Remsen	3w	—
RmB—Remsen-Urban land complex				
	55	Remsen	—	—
	45	Urban land	—	—
RsB—Rittman silt loam, 2 to 6 percent slopes				
	95	Rittman	2e	—

Land Capability Classification--Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RsC—Rittman silt loam, 6 to 12 percent slopes				
	100	Rittman	3e	—
RsC2—Rittman silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Rittman	3e	—
RsD2—Rittman silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Rittman	4e	—
RuB—Rittman-Urban land complex				
	50	Rittman	—	—
	35	Urban land	—	—
Sb—Sebring silt loam				
	95	Sebring	3w	—
Se—Sebring silt loam, till substratum				
	100	Sebring	3w	—
Sg—Sebring-Urban land complex				
	55	Sebring	—	—
	45	Urban land	—	—
Sn—Sloan silt loam				
	90	Sloan	3w	—
TrA—Trumbull silt loam, 0 to 2 percent slopes				
	90	Trumbull	4w	—
TrB—Trumbull silt loam, 2 to 6 percent slopes				
	85	Trumbull	4w	—
Tu—Trumbull-Urban land complex, 0 to 2 percent slopes				
	45	Trumbull	4w	—
	35	Urban land	8	—
Ua—Udorthents, loamy, 2 to 25 percent slopes				
	100	Udorthents	—	—
Uc—Udorthents-Pits complex, 0 to 70 percent slopes				
	60	Udorthents	—	—
	30	Pits	—	—

Land Capability Classification--Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
UdB—Urban land-Canfield complex, 2 to 6 percent slopes				
	60	Urban land	8	—
	30	Canfield	2e	—
UdC—Urban land-Canfield complex, 6 to 12 percent slopes				
	60	Urban land	8	—
	30	Canfield	3e	—
UvB—Urban land-Chili complex, 2 to 6 percent slopes				
	60	Urban land	—	—
	30	Chili	—	—
VaA—Valley silt loam, 0 to 2 percent slopes				
	80	Valley	3w	—
VcA—Valley-Lorain silt loams, 0 to 2 percent slopes				
	45	Valley	3w	—
	35	Lorain	3w	—
W—Water				
	100	Water	—	—
WaA—Wadsworth silt loam, 0 to 2 percent slopes				
	95	Wadsworth	3w	—
WaB—Wadsworth silt loam, 2 to 6 percent slopes				
	95	Wadsworth	3e	—
WbB—Wadsworth-Urban land complex				
	55	Wadsworth	—	—
	45	Urban land	—	—
Wc—Wayland silt loam				
	95	Wayland	3w	—
WoA—Wick silt loam, 0 to 2 percent slopes, frequently flooded				
	90	Wick	5w	—
WrF2—Wooster loam, 25 to 50 percent slopes, moderately eroded				
	95	Wooster	7e	—
WsB—Wooster silt loam, 2 to 6 percent slopes				
	90	Wooster	2e	—

Land Capability Classification--Mahoning County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WsC2—Wooster silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Wooster	3e	—
WsD2—Wooster silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Wooster	4e	—
WsE2—Wooster silt loam, 18 to 25 percent slopes, moderately eroded				
	100	Wooster	6e	—
ZeA—Zepernick silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Zepernick	2w	—

### Data Source Information

Soil Survey Area: Mahoning County, Ohio  
 Survey Area Data: Version 12, Sep 19, 2014