

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—Lorain County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AkA—Allis loam, 0 to 2 percent slopes				
	95	Allis	4w	—
AIA—Allis silty clay loam, 0 to 2 percent slopes				
	94	Allis	4w	—
AmA—Allis-Urban land complex, nearly level				
	60	Allis	—	—
	30	Urban land	—	—
BgA—Bennington silt loam, 0 to 2 percent slopes				
	90	Bennington	2w	—
BgB—Bennington silt loam, 2 to 6 percent slopes				
	90	Bennington	2e	—
BsA—Bogart sandy loam, 0 to 2 percent slopes				
	85	Bogart	2s	—
BtA—Bogart loam, 0 to 2 percent slopes				
	85	Bogart	2s	—
BtB—Bogart loam, 2 to 6 percent slopes				
	85	Bogart	2e	—
CdB—Cardington silt loam, 2 to 6 percent slopes				
	85	Cardington	2e	—
CdC2—Cardington silt loam, 6 to 12 percent slopes, eroded				
	90	Cardington	3e	—
Cg—Carlisle mucky silt loam				
	95	Carlisle	3w	—
Ch—Chagrin silt loam				
	85	Chagrin	2w	—
CIA—Chili loam, 0 to 2 percent slopes				
	90	Chili	2s	—

Land Capability Classification—Lorain County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CIB—Chili loam, 2 to 6 percent slopes				
	95	Chili	2e	—
CID2—Chili loam, 6 to 18 percent slopes, moderately eroded				
	85	Chili	3e	—
CmC2—Chili gravelly loam, 6 to 12 percent slopes, moderately eroded				
	100	Chili	3e	—
CmE2—Chili gravelly loam, 12 to 25 percent slopes, moderately eroded				
	100	Chili	6e	—
CmF2—Chili gravelly loam, 25 to 70 percent slopes, moderately eroded				
	100	Chili	7e	—
CnB—Chili-Urban land complex, gently sloping				
	60	Chili	—	—
	30	Urban land	—	—
CoB—Conotton gravelly loam, 2 to 6 percent slopes				
	85	Conotton	3s	—
CoC—Conotton gravelly loam, 6 to 12 percent slopes				
	85	Conotton	3e	—
Cp—Condit silty clay loam				
	90	Condit	3w	—
Cq—Condit silt loam, 0 to 1 percent slopes				
	90	Condit	3w	—
Cz—Udorthents				
	100	Udorthents	—	—
DkB—Dekalb very channery loam, 1 to 6 percent slopes				
	90	Dekalb	2e	—
DsB—Del Rey silt loam, 1 to 4 percent slopes				
	85	Del rey	2w	—
Eke2—Ellsworth silt loam, 12 to 25 percent slopes, eroded				
	90	Ellsworth, eroded	4e	—

Land Capability Classification—Lorain County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EkF—Ellsworth silt loam, 25 to 70 percent slopes				
	85	Ellsworth	7e	—
EIB—Ellsworth silt loam, 2 to 6 percent slopes				
	85	Ellsworth	2e	—
EIB2—Ellsworth silt loam, 2 to 6 percent slopes, eroded				
	85	Ellsworth, eroded	2e	—
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	—
EIF2—Ellsworth silt loam, 18 to 50 percent slopes, eroded				
	85	Ellsworth, eroded	6e	—
EnA—Elnora loamy fine sand, 1 to 3 percent slopes				
	90	Elnora	3s	—
FcA—Fitchville silt loam, 0 to 2 percent slopes				
	85	Fitchville	2w	—
FcB—Fitchville silt loam, 2 to 6 percent slopes				
	94	Fitchville	2w	—
FdA—Fitchville silt loam, low terrace, 0 to 2 percent slopes				
	85	Fitchville	2w	—
FeA—Fitchville-Urban land complex, nearly level				
	60	Fitchville	—	—
	35	Urban land	—	—
FuA—Fulton silt loam, 0 to 2 percent slopes				
	85	Fulton	3w	—
FuB—Fulton silt loam, 2 to 6 percent slopes				
	95	Fulton	3w	—
FvA—Fulton silt loam, sandy substratum, 0 to 2 percent slopes				
	95	Fulton	3w	—

Land Capability Classification—Lorain County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HsA—Haskins loam, 0 to 2 percent slopes				
	85	Haskins	2w	—
HsB—Haskins loam, 2 to 6 percent slopes				
	85	Haskins	2w	—
HtA—Haskins-Urban land complex, nearly level				
	60	Haskins	—	—
	35	Urban land	—	—
Hy—Holly silt loam				
	95	Holly	3w	—
HZA—Hornell silt loam, 0 to 2 percent slopes				
	90	Hornell	3w	—
HZB—Hornell silt loam, 2 to 6 percent slopes				
	85	Hornell	3w	—
JsA—Jimtown sandy loam, 0 to 2 percent slopes				
	95	Jimtown	2w	—
JtA—Jimtown loam, 0 to 2 percent slopes				
	90	Jimtown	2w	—
JtB—Jimtown loam, 2 to 6 percent slopes				
	90	Jimtown	2w	—
JuA—Jimtown-Urban land complex, nearly level				
	50	Jimtown	—	—
	30	Urban land	—	—
La—Lobdell silt loam, frequently flooded				
	80	Lobdell	2w	—
Lb—Lobdell silt loam				
	85	Lobdell	2w	—
LcB—Lockport silty clay loam, 1 to 4 percent slopes				
	95	Lockport	3w	—
Ln—Lorain silty clay loam				
	90	Lorain	3w	—
Ls—Lorain silty clay loam, sandy substratum				
	97	Lorain	3w	—

Land Capability Classification—Lorain County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Lu—Luray silt loam				
	100	Luray	2w	—
Ly—Luray silty clay loam				
	90	Luray	2w	—
MgA—Mahoning silt loam, 0 to 2 percent slopes				
	85	Mahoning	3w	—
MgB—Mahoning silt loam, 2 to 6 percent slopes				
	85	Mahoning	3w	—
MgB2—Mahoning silt loam, 2 to 6 percent slopes, eroded				
	85	Mahoning, eroded	3w	—
MhA—Mahoning silt loam, sandstone substratum, 0 to 2 percent slopes				
	85	Mahoning, sandstone substratum	3w	—
MkA—Mahoning-Tiro silt loams, 0 to 2 percent slopes				
	50	Mahoning	3w	—
	30	Tiro	2w	—
MkB—Mahoning-Tiro silt loams, 2 to 6 percent slopes				
	50	Mahoning	3w	—
	30	Tiro	2e	—
MmA—Mahoning-Urban land complex, 0 to 2 percent slopes				
	45	Mahoning	3w	—
	35	Urban land	8	—
MnB—Mentor silt loam, 2 to 6 percent slopes				
	85	Mentor	2e	—
MnC—Mentor silt loam, 6 to 12 percent slopes				
	95	Mentor	3e	—
MnE—Mentor silt loam, 12 to 25 percent slopes				
	95	Mentor	4e	—
Mo—Mermill loam				
	90	Mermill	2w	—
Mr—Miner silty clay loam, 0 to 2 percent slopes				
	85	Miner	5w	—

Land Capability Classification—Lorain County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ms—Miner silty clay loam, shale substratum, 0 to 2 percent slopes				
	85	Miner, shale substratum	5w	—
MtA—Mitiwanga silt loam, 0 to 2 percent slopes				
	85	Mitiwanga	3w	—
MtB—Mitiwanga silt loam, 2 to 6 percent slopes				
	90	Mitiwanga	3w	—
MvB—Mitiwanga channery loam, 1 to 4 percent slopes				
	95	Mitiwanga	3w	—
MxB—Mitiwanga-Urban land complex, gently sloping				
	60	Mitiwanga	—	—
	35	Urban land	—	—
Om—Olmsted fine sandy loam				
	92	Olmsted	2w	—
On—Olmsted loam, sandstone substratum				
	95	Olmsted	2w	—
Or—Orrville silt loam				
	85	Orrville	2w	—
OtA—Oshtemo sandy loam, 0 to 2 percent slopes				
	90	Oshtemo	3s	—
OtB—Oshtemo sandy loam, 2 to 6 percent slopes				
	85	Oshtemo	3s	—
OtC—Oshtemo sandy loam, 6 to 12 percent slopes				
	85	Oshtemo	3e	—
Qu—Quarries				
	100	Quarries	—	—
RdA—Rawson loam, 0 to 2 percent slopes				
	85	Rawson	1	—
RdB—Rawson loam, 2 to 6 percent slopes				
	90	Rawson	2e	—
RdC2—Rawson loam, 6 to 12 percent slopes, moderately eroded				
	95	Rawson	3e	—

Land Capability Classification—Lorain County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Sb—Sebring silt loam				
	85	Sebring	3w	—
Sd—Sebring silt loam, sandstone substratum				
	97	Sebring	3w	—
Se—Senecaville silt loam				
	90	Senecaville	2w	—
SkA—Shinrock silt loam, 0 to 2 percent slopes				
	90	Shinrock	2s	—
SkB—Shinrock silt loam, 2 to 6 percent slopes				
	85	Shinrock	2e	—
Sw—Stafford fine sandy loam				
	85	Stafford	2w	—
Tg—Tioga fine sandy loam				
	85	Tioga	2w	—
TrA—Trumbull silty clay loam, 0 to 2 percent slopes				
	90	Trumbull	4w	—
TyB—Tyner loamy sand, 1 to 6 percent slopes				
	90	Tyner	4s	—
TyC—Tyner loamy sand, 6 to 12 percent slopes				
	85	Tyner	4s	—
UpC—Upshur silt loam, 2 to 8 percent slopes				
	95	Upshur	3e	—
UpF—Upshur silt loam, 25 to 70 percent slopes				
	85	Upshur	7e	—
W—Water				
	100	Water	—	—
WeB—Weikert channery fine sandy loam, 1 to 6 percent slopes				
	85	Weikert	6s	—

Data Source Information

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