

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--Erie County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AaA—Adrian muck, 0 to 1 percent slopes				
	93	Adrian	5w	—
AeA—Algiers silt loam, 0 to 2 percent slopes				
	90	Algiers	2w	—
AgF—Alexandria silt loam, 25 to 50 percent slopes				
	85	Alexandria	7e	—
AkA—Allis clay loam, 0 to 2 percent slopes				
	90	Allis	4w	—
AmD2—Amanda loam, 12 to 18 percent slopes, eroded				
	90	Amanda	4e	—
AnG—Amanda-Dekalb-Rock outcrop association, 40 to 70 percent slopes				
	50	Amanda	7e	—
	25	Dekalb	7e	—
	20	Rock outcrop	—	—
Bc—Beaches				
	90	Beaches	—	—
BdB—Belmore loam, 2 to 6 percent slopes				
	95	Belmore	2e	—
BeA—Bennington loam, 0 to 2 percent slopes				
	90	Bennington	2w	—
BgA—Bennington silt loam, 0 to 2 percent slopes				
	90	Bennington	2w	—
BgB—Bennington silt loam, 2 to 6 percent slopes				
	90	Bennington	2e	—
BkA—Bixler loamy fine sand, 0 to 2 percent slopes				
	90	Bixler	2w	—

Land Capability Classification--Erie County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BkB—Bixler loamy fine sand, 2 to 6 percent slopes				
	95	Bixler	2e	—
BvG—Brecksville silt loam, 40 to 70 percent slopes				
	85	Brecksville	7e	—
CaA—Cardington silt loam, 0 to 2 percent slopes				
	100	Cardington	1	—
CaB—Cardington silt loam, 2 to 6 percent slopes				
	90	Cardington	2e	—
CbC2—Cardington silty clay loam, 6 to 12 percent slopes, eroded				
	90	Cardington	3e	—
CcA—Castalia very channery loam, 0 to 2 percent slopes				
	85	Castalia	3s	—
CcB—Castalia very channery loam, 2 to 6 percent slopes				
	85	Castalia	3s	—
CcD—Castalia very channery loam, 12 to 18 percent slopes				
	85	Castalia	6s	—
ChB—Chili loam, loamy substratum, 2 to 6 percent slopes				
	85	Chili	2e	—
CmA—Colwood loam, 0 to 1 percent slopes				
	90	Colwood	2w	—
CnA—Colwood silt loam, bedrock substratum, 0 to 1 percent slopes				
	80	Colwood	2w	—
CoA—Condit silt loam, 0 to 1 percent slopes				
	90	Condit	3w	—
CtB—Conotton loam, 2 to 6 percent slopes				
	90	Conotton	3s	—
CuC—Conotton gravelly loam, 6 to 12 percent slopes				
	90	Conotton	4e	—

Land Capability Classification--Erie County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
DbB—Dekalb channery loam, 2 to 6 percent slopes				
	90	Dekalb	2e	—
DbD—Dekalb channery loam, 12 to 18 percent slopes				
	85	Dekalb	4e	—
DeA—Del Rey silt loam, 0 to 2 percent slopes				
	90	Del rey	2w	—
DuA—Dunbridge loamy sand, 0 to 2 percent slopes				
	90	Dunbridge	3s	—
DuB—Dunbridge loamy sand, 2 to 6 percent slopes				
	90	Dunbridge	3e	—
EcA—Elliott silt loam, bedrock substratum, 0 to 2 percent slopes				
	85	Elliott	2w	—
EdB—Ellsworth silt loam, 2 to 6 percent slopes				
	85	Ellsworth	2e	—
EdC2—Ellsworth silt loam, 6 to 12 percent slopes, eroded				
	90	Ellsworth, eroded	3e	—
EnA—Elnora loamy fine sand, 0 to 4 percent slopes				
	95	Elnora	2w	—
EoA—Elnora loamy fine sand, bedrock substratum, 0 to 4 percent slopes				
	85	Elnora	2w	—
EsA—Endoaquents, loamy, 0 to 1 percent slopes				
	90	Endoaquents	—	—
FnA—Fluvaquents, silty, 0 to 1 percent slopes, frequently flooded				
	95	Fluvaquents	—	—
FoB—Fox loam, 2 to 6 percent slopes				
	90	Fox	2e	—
FrA—Fries silty clay loam, 0 to 1 percent slopes				
	85	Fries	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FuA—Fulton silty clay loam, 0 to 2 percent slopes				
	95	Fulton	3w	—
GdA—Gilford fine sandy loam, 0 to 1 percent slopes				
	90	Gilford	2w	—
Gwg1B1—Glynwood silt loam, ground moraine, 2 to 6 percent slopes				
	85	Glynwood, ground moraine	2e	—
HdA—Harrod silt loam, 0 to 1 percent slopes, frequently flooded				
	90	Harrod	3w	—
HkA—Haskins loam, 0 to 2 percent slopes				
	85	Haskins	2w	—
HoA—Holly silt loam, 0 to 1 percent slopes, occasionally flooded				
	90	Holly	3w	—
HpB—Hornell loam, 2 to 6 percent slopes				
	85	Hornell	3e	—
HrB—Hornell silt loam, 2 to 6 percent slopes				
	90	Hornell	3e	—
HsA—Hornell silty clay loam, 0 to 2 percent slopes				
	85	Hornell	3w	—
JtA—Jimtown loam, 0 to 2 percent slopes				
	85	Jimtown	2w	—
JuA—Joliet silt loam, 0 to 1 percent slopes				
	85	Joliet	4w	—
KbA—Kibbie fine sandy loam, 0 to 2 percent slopes				
	90	Kibbie	2w	—
KcA—Kibbie loam, 0 to 2 percent slopes				
	90	Kibbie	2w	—
MaA—Mahoning silt loam, 0 to 2 percent slopes				
	85	Mahoning	3w	—
MaB—Mahoning silt loam, 2 to 6 percent slopes				
	85	Mahoning	3w	—

Land Capability Classification--Erie County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MbB—Marblehead loam, 0 to 6 percent slopes				
	80	Marblehead	6s	—
MeA—Mermill silty clay loam, 0 to 1 percent slopes				
	90	Mermill	2w	—
MfA—Milford silty clay loam, 0 to 1 percent slopes				
	95	Milford	2w	—
MgA—Millgrove loam, 0 to 1 percent slopes				
	90	Millgrove	2w	—
MmA—Millsdale silty clay loam, 0 to 1 percent slopes				
	85	Millsdale	3w	—
MnA—Milton silt loam, 0 to 2 percent slopes				
	85	Milton	2s	—
MnB—Milton silt loam, 2 to 6 percent slopes				
	85	Milton	2e	—
MrA—Miner silty clay loam, 0 to 2 percent slopes				
	85	Miner	5w	—
MsA—Miner silt loam, shale substratum, 0 to 2 percent slopes				
	85	Miner, shale substratum	5w	—
MxA—Mitiwanga silt loam, 0 to 2 percent slopes				
	85	Mitiwanga	2w	—
MxB—Mitiwanga silt loam, 2 to 6 percent slopes				
	85	Mitiwanga	2e	—
NoA—Nolin silt loam, 0 to 2 percent slopes, occasionally flooded				
	95	Nolin	2w	—
OaB—Oakville loamy fine sand, 0 to 6 percent slopes				
	90	Oakville	4s	—
OgA—Ogontz fine sandy loam, 0 to 2 percent slopes				
	90	Ogontz	1	—

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			Nonirrigated	Irrigated
OhB—Ogontz silt loam, 2 to 6 percent slopes				
	90	Ogontz	2e	—
OmA—Olmsted loam, 0 to 1 percent slopes				
	90	Olmsted	2w	—
On—Orrville silt loam, frequently flooded				
	90	Orrville	2w	—
OpA—Orrville silt loam, bedrock substratum, 0 to 2 percent slopes, occasionally flooded				
	85	Orrville	2w	—
OrA—Orrville silt loam, bedrock substratum, 0 to 2 percent slopes, frequently flooded				
	85	Orrville	2w	—
OsB—Oshtemo loamy sand, 0 to 6 percent slopes				
	90	Oshtemo	3s	—
PcA—Pewamo silty clay loam, 0 to 1 percent slopes				
	90	Pewamo	2w	—
Pg—Pits, gravel or sand				
	85	Pits, gravel or sand	—	—
Pk—Pits, quarry				
	90	Pits, quarry	—	—
PmA—Plumbrook fine sandy loam, 0 to 2 percent slopes				
	90	Plumbrook	2w	—
PrA—Prout silt loam, 0 to 2 percent slopes				
	90	Prout	3w	—
RaA—Randolph silt loam, 0 to 2 percent slopes				
	85	Randolph	3w	—
RcA—Rawson sandy loam, 0 to 2 percent slopes				
	95	Rawson	1	—
RcB—Rawson sandy loam, 2 to 6 percent slopes				
	95	Rawson	2e	—
RgA—Rimer loamy fine sand, 0 to 2 percent slopes				
	95	Rimer	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RhA--Ritchey loam, 0 to 2 percent slopes				
	90	Ritchey	3s	—
RhB--Ritchey loam, 2 to 6 percent slopes				
	90	Ritchey	3e	—
RhC--Ritchey loam, 6 to 12 percent slopes				
	85	Ritchey	4e	—
SaA--Sandusky loam, 0 to 1 percent slopes				
	90	Sandusky	3w	—
SbF--Saylesville silt loam, 25 to 40 percent slopes				
	95	Saylesville	7e	—
ShB--Shinrock silt loam, 2 to 6 percent slopes				
	90	Shinrock	2e	—
SkC2--Shinrock silty clay loam, 6 to 12 percent slopes, eroded				
	90	Shinrock	3e	—
SkD2--Shinrock silty clay loam, 12 to 18 percent slopes, eroded				
	95	Shinrock	4e	—
SpB--Spinks loamy fine sand, 0 to 6 percent slopes				
	95	Spinks	3s	—
SpD--Spinks loamy fine sand, 12 to 18 percent slopes				
	95	Spinks	4e	—
SrB--Spinks loamy fine sand, 2 to 6 percent slopes				
	90	Spinks	3s	3s
TgA--Tioga loam, 0 to 2 percent slopes, occasionally flooded				
	95	Tioga	2w	—
TnA--Toledo silty clay loam, 0 to 1 percent slopes				
	90	Toledo	3w	—
ToA--Toledo silty clay, 0 to 1 percent slopes				
	90	Toledo	3w	—
TpA--Toledo silty clay, 0 to 1 percent slopes, ponded				
	90	Toledo	4w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
TuA—Tuscola fine sandy loam, 0 to 2 percent slopes				
	90	Tuscola	1	—
TuB—Tuscola fine sandy loam, 2 to 6 percent slopes				
	95	Tuscola	2e	—
UcB—Udipsamments-Spinks complex, 0 to 6 percent slopes				
	70	Udipsamment	4s	—
	30	Spinks	3s	—
UdB—Udorthents, loamy, 0 to 6 percent slopes				
	85	Udorthents	—	—
W—Water				
	100	Water	—	—
WaB—Wakeman sandy loam, 2 to 6 percent slopes				
	85	Wakeman	2e	—
WaC—Wakeman sandy loam, 6 to 12 percent slopes				
	85	Wakeman	3e	—
WeA—Weyers silt loam, 0 to 1 percent slopes				
	90	Weyers	3w	—
ZuC2—Zurich silt loam, 6 to 12 percent slopes, eroded				
	90	Zurich	3e	—
ZuD2—Zurich silt loam, 12 to 18 percent slopes, eroded				
	90	Zurich	4e	—
ZuE2—Zurich silt loam, 18 to 25 percent slopes, eroded				
	90	Zurich	6e	—
ZuF—Zurich silt loam, 25 to 40 percent slopes				
	90	Zurich	7e	—

Data Source Information

Soil Survey Area: Erie County, Ohio
 Survey Area Data: Version 13, Sep 18, 2014