

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—Logan County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ag—Algiers silt loam				
	90	Algiers	2w	—
BeE—Berks silt loam, 18 to 25 percent slopes				
	100	Berks	4e	—
BeF—Berks silt loam, 25 to 50 percent slopes				
	100	Berks	7e	—
Ble1A1—Blount silt loam, end moraine, 0 to 2 percent slopes				
	85	Blount, end moraine	2w	—
Ble1B1—Blount silt loam, end moraine, 2 to 4 percent slopes				
	85	Blount, end moraine	2e	—
Blg1A1—Blount silt loam, ground moraine, 0 to 2 percent slopes				
	85	Blount, ground moraine	2w	—
Blg1B1—Blount silt loam, ground moraine, 2 to 4 percent slopes				
	85	Blount, ground moraine	2e	—
Bs—Brookston silty clay loam, fine texture, 0 to 2 percent slopes				
	90	Brookston	2w	—
Ca—Carlisle muck				
	100	Carlisle	3w	—
Cc—Carlisle muck, ponded				
	100	Carlisle	5w	—
CdD2—Casco-Eldean complex, 12 to 18 percent slopes, moderately eroded				
	60	Casco	6e	—
	40	Eldean	4e	—
CeA—Celina silt loam, 0 to 2 percent slopes				
	95	Celina	1	—

Land Capability Classification—Logan County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CeB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—
CrA—Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	90	Crosby	2w	—
CrB—Crosby silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes				
	90	Crosby	2e	—
CsA—Crosby-Urban land complex, nearly level				
	60	Crosby	—	—
	30	Urban land	—	—
Dc—Defiance silty clay, frequently flooded				
	100	Defiance	3w	—
DeA—Del Rey silt loam, 0 to 2 percent slopes				
	90	Del rey	2w	—
DeB—Del Rey silt loam, 2 to 6 percent slopes				
	95	Del rey	2e	—
Ed—Edwards muck				
	100	Edwards	4w	—
Ee—Eel silt loam				
	95	Eel	2w	—
EmA—Eldean silt loam, 0 to 2 percent slopes				
	100	Eldean	2s	—
EmB—Eldean silt loam, 2 to 6 percent slopes				
	100	Eldean	2e	—
EmC2—Eldean silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Eldean	3e	—
EpB—Eldean-Urban land complex, undulating				
	60	Eldean	—	—
	30	Urban land	—	—
FIA—Fox loam, 0 to 2 percent slopes				
	100	Fox	2s	—
FIB—Fox loam, 2 to 6 percent slopes				
	100	Fox	2e	—
FnA—Fox silt loam, 0 to 2 percent slopes				
	90	Fox	2s	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FnB—Fox silt loam, 2 to 6 percent slopes				
	85	Fox	2e	—
FuA—Fulton silt loam, 0 to 4 percent slopes				
	95	Fulton	3w	—
GaB—Gallman loam, 1 to 4 percent slopes				
	100	Gallman	2e	—
Gn—Genesee silt loam				
	95	Genesee	2w	—
Gwd5C2—Glynwood clay loam, 6 to 12 percent slopes, eroded				
	85	Glynwood	4e	—
Gwe1B1—Glynwood silt loam, end moraine, 2 to 6 percent slopes				
	85	Glynwood, end moraine	2e	—
Gwg1B1—Glynwood silt loam, ground moraine, 2 to 6 percent slopes				
	85	Glynwood, ground moraine	2e	—
Gwg5C2—Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded				
	85	Glynwood	3e	—
HdA—Haskins loam, 0 to 2 percent slopes				
	95	Haskins	2w	—
HdB—Haskins loam, 2 to 6 percent slopes				
	95	Haskins	2e	—
HeA—Henshaw silt loam, 0 to 2 percent slopes				
	95	Henshaw	2w	—
HeB—Henshaw silt loam, 2 to 6 percent slopes				
	95	Henshaw	2e	—
HoA—Homer silt loam, 0 to 2 percent slopes				
	90	Homer	2w	—
HoB—Homer silt loam, 2 to 6 percent slopes				
	95	Homer	2e	—
KeB—Kendallville silt loam, 2 to 6 percent slopes				
	100	Kendallville	2e	—
La—Latty silty clay				
	90	Latty	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Lb—Latty silty clay, occasionally flooded				
	100	Latty	3w	—
Ln—Linwood muck				
	100	Linwood	2w	—
Lp—Lippincott silty clay loam				
	95	Lippincott	2w	—
Ls—Lippincott-Urban land complex				
	60	Lippincott	—	—
	35	Urban land	—	—
Ma—Martisco mucky silt loam				
	100	Martisco	4w	—
Mc—Martisco Variant silt loam				
	100	Martisco variant	4w	—
MeA—McGary silt loam, 0 to 4 percent slopes				
	90	Mcgary	3w	—
MfE2—Miami-Casco-Rodman complex, 18 to 25 percent slopes, moderately eroded				
	60	Miami	6e	—
	20	Rodman	7s	—
	20	Casco	7e	—
MhB—Miamian silt loam, 2 to 6 percent slopes				
	95	Miamian	2e	—
MhC2—Miamian silt loam, 6 to 12 percent slopes, moderately eroded				
	98	Miamian	3e	—
MhD2—Miamian silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Miamian	4e	—
MhE2—Miamian silt loam, 18 to 25 percent slopes, moderately eroded				
	100	Miamian	6e	—
MhF—Miamian silt loam, 25 to 50 percent slopes				
	100	Miamian	7e	—
MIB—Miamian-Urban land complex, undulating				
	60	Miamian	—	—
	30	Urban land	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MIC—Miamiian-Urban land complex, rolling				
	65	Miamiian	—	—
	33	Urban land	—	—
MmC2—Miamiian Variant silt loam, 6 to 15 percent slopes, moderately eroded				
	95	Miamiian variant	3e	—
Mnl3A—Minster silty clay loam, till substratum, 0 to 1 percent slopes				
	85	Minster, till substratum	3w	—
Mns3A—Minster silty clay loam, 0 to 1 percent slopes				
	90	Minster	3w	—
Mny3A—Minster silty clay loam, gravelly substratum, 0 to 1 percent slopes				
	90	Minster, gravelly substratum	3w	—
MoB—Milton silt loam, 2 to 6 percent slopes				
	95	Milton	2e	—
MoC2—Milton silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Milton	3e	—
MoD2—Milton silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Milton	4e	—
MyD2—Morley silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Morley	4e	—
MyE—Morley silt loam, 18 to 25 percent slopes				
	90	Morley	6e	—
Mz—Muskego muck				
	100	Muskego	4w	—
NaA—Nappanee silt loam, 0 to 2 percent slopes				
	95	Nappanee	3w	—
NaB—Nappanee silt loam, 2 to 6 percent slopes				
	95	Nappanee	3e	—
NnA—Nineveh silt loam, 0 to 2 percent slopes				
	100	Nineveh	2s	—

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			Nonirrigated	Irrigated
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	—
PaB—Parr silt loam, 1 to 4 percent slopes				
	95	Parr	2e	—
Pb—Patton silt loam				
	95	Patton	2w	—
Pc—Patton Variant silt loam				
	100	Patton variant	2w	—
Pd—Paulding clay				
	95	Paulding	3w	—
Pe—Pewamo silty clay loam				
	95	Pewamo	2w	—
Pf—Paulding silty clay				
	95	Paulding	3w	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—
Ph—Patton silty clay loam				
	100	Patton	2w	—
Pk—Pits, quarries				
	100	Pits, quarries	—	—
RoE—Rodman-Casco complex, 18 to 25 percent slopes				
	60	Rodman	7s	—
	40	Casco	6e	—
RoF—Rodman-Casco complex, 25 to 50 percent slopes				
	60	Rodman	7s	—
	40	Casco	7e	—
Sac3AF—Saranac silty clay loam, 0 to 1 percent slopes, frequently flooded				
	90	Saranac, brief duration	3w	—
ScB—St. Clair silt loam, 2 to 6 percent slopes				
	95	St. clair	3e	—

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			Nonirrigated	Irrigated
ScC2—St. Clair silt loam, 6 to 12 percent slopes, moderately eroded				
	95	St. clair	3e	—
ScD2—St. Clair silt loam, 12 to 18 percent slopes, moderately eroded				
	100	St. clair	4e	—
ScE2—St. Clair silt loam, 18 to 35 percent slopes, moderately eroded				
	100	St. clair	7e	—
SgB—Shinrock silt loam, 2 to 6 percent slopes				
	95	Shinrock	2e	—
SgC—Shinrock silt loam, 6 to 12 percent slopes				
	95	Shinrock	3e	—
Sh—Shoals silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Shoals	2w	—
SIA—Sleeth silt loam, 0 to 2 percent slopes				
	95	Sleeth	2w	—
SmA—Sleeth silt loam, 0 to 3 percent slopes				
	85	Sleeth	2w	—
So—Sloan silt loam				
	95	Sloan	3w	—
Ud—Udorthents				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
Wa—Walkkill silt loam				
	100	Walkkill	3w	—
Wb—Walkkill silty clay loam				
	90	Walkkill	3w	—
WeA—Wea Variant silt loam, 0 to 2 percent slopes				
	100	Wea variant	1	—
WkF—Weikert shaly silt loam, 35 to 70 percent slopes				
	100	Weikert	7e	—
Ws—Westland clay loam				
	85	Westland	2w	—

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			Nonirrigated	Irrigated
Wt--Westland silty clay loam				
	95	Westland	2w	—
Wu--Westland silty clay loam, clay substratum				
	95	Westland	2w	—
Wv--Wetzel silty clay loam				
	95	Wetzel	2w	—
Wx--Willette muck				
	100	Willette	3w	—

Data Source Information

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