

## 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--Marion County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
ApUXA—Aeric Epiaquents-Urban land complex, till substratum, 0 to 3 percent slopes				
	65	Aeric epiaquents, till substratum	—	—
	30	Urban land, residential	—	—
AqUXA—Aquents, clayey-Urban land complex, 0 to 3 percent slopes				
	65	Aquents, clayey	—	—
	30	Urban land, commercial/industrial	—	—
AtUXB—Alfic Udarents-Urban land complex, till substratum, 1 to 8 percent slopes				
	65	Alfic udarents, till substratum	—	—
	30	Urban land, residential	—	—
BfA—Bennington silt loam, 0 to 2 percent slopes				
	85	Bennington	2w	—
BgA—Bennington silt loam, 0 to 3 percent slopes				
	85	Bennington	2w	—
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	—
Bz—Bono silty clay				
	85	Bono	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Cb—Carlisle muck				
	90	Carlisle	5w	—
CdB—Cardington silt loam, 2 to 6 percent slopes				
	90	Cardington	2e	—
CdB2—Cardington silt loam, 2 to 6 percent slopes, moderately eroded				
	92	Cardington	2e	—
CdC2—Cardington silt loam, 6 to 12 percent slopes, eroded				
	85	Cardington	3e	—
CeB—Centerburg silt loam, 1 to 4 percent slopes				
	85	Centerburg	2e	—
DdA—Del Rey silt loam, 0 to 2 percent slopes				
	91	Del rey	2w	—
DdB—Del Rey silt loam, 2 to 6 percent slopes				
	91	Del rey	2e	—
DeA—Del Rey silt loam, 0 to 3 percent slopes				
	85	Del rey	2w	—
EsA—Elliott silt loam, 0 to 3 percent slopes				
	88	Elliott	2w	—
EtA—Elliott silty clay loam, 0 to 3 percent slopes				
	90	Elliott	2w	—
FcA—Fitchville silt loam, 0 to 3 percent slopes				
	85	Fitchville	2w	—
FoA—Fox loam, 0 to 2 percent slopes				
	90	Fox	2s	—
FoB—Fox loam, 2 to 6 percent slopes				
	90	Fox	2e	—
FtA—Fulton silty clay loam, 0 to 2 percent slopes				
	90	Fulton	3w	—
FtB—Fulton silty clay loam, 2 to 6 percent slopes				
	90	Fulton	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GwA—Glynwood silt loam, 0 to 2 percent slopes				
	90	Glynwood	1	—
GwD2—Glynwood silt loam, 12 to 18 percent slopes, eroded				
	90	Glynwood	4e	—
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	—
Gwe5B2—Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded				
	85	Glynwood, end moraine	2e	—
Gwg1B1—Glynwood silt loam, ground moraine, 2 to 6 percent slopes				
	85	Glynwood, ground moraine	2e	—
Gwg1B2—Glynwood silt loam, ground moraine, 2 to 6 percent slopes, eroded				
	85	Glynwood, ground moraine	2e	—
Gwg5C2—Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded				
	85	Glynwood	3e	—
KeB—Kendallville loam, 2 to 6 percent slopes				
	85	Kendallville	2e	—
KeD2—Kendallville loam, 12 to 18 percent slopes, eroded				
	85	Kendallville	4e	—
KfA—Kibbie loam, 0 to 3 percent slopes				
	85	Kibbie	2w	—
La—Latty silty clay				
	90	Latty	3w	—
Le—Lenawee silty clay loam				
	100	Lenawee	2w	—
Lu—Luray silty clay loam				
	100	Luray	2w	—
MaA—Martinsville loam, 0 to 2 percent slopes				
	90	Martinsville	1	—

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			Nonirrigated	Irrigated
MaB—Martinsville loam, 2 to 6 percent slopes				
	90	Martinsville	2e	—
Mc—Medway silt loam, rarely flooded				
	80	Medway	1	—
Md—Medway silt loam				
	95	Medway	2w	—
Me—Medway clay loam, rarely flooded				
	80	Medway	1	—
Mf—Milford silty clay loam				
	90	Milford	2w	—
Mg—Millgrove silt loam				
	90	Millgrove	2w	—
MhA—Millgrove silty clay loam, 0 to 2 percent slopes				
	95	Millgrove	2w	—
MnB—Milton silt loam, 1 to 4 percent slopes				
	85	Milton	2e	—
MrF2—Morley silt loam, 18 to 50 percent slopes, eroded				
	85	Morley	7e	—
Mu—Muskego muck				
	95	Muskego	6w	—
Ne—Newark silt loam, occasionally flooded				
	85	Newark	2w	—
No—Nolin silt loam, occasionally flooded				
	85	Nolin	2w	—
OcA—Ockley loam, 0 to 2 percent slopes				
	90	Ockley	1	—
OcB—Ockley loam, 2 to 6 percent slopes				
	95	Ockley	2e	—
OdB—Ockley silt loam, 2 to 6 percent slopes				
	85	Ockley	2e	—
OnUXB—Orthents, clayey-Urban land complex, 1 to 8 percent slopes				
	65	Orthents, clayey	2e	—
	30	Urban land, commercial/industrial	—	—

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			Nonirrigated	Irrigated
Pa—Paulding clay				
	90	Paulding	3w	—
Pk—Pewamo silty clay loam, 0 to 1 percent slopes				
	85	Pewamo	2w	—
Pm—Pewamo silty clay loam				
	90	Pewamo	2w	—
Ps—Pits, gravel				
	100	Pits	—	—
Pt—Pits, quarry				
	100	Pits	—	—
Ro—Rossburg silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Rossburg	2w	—
Sa—Saranac silty clay loam, occasionally flooded				
	85	Saranac	3w	—
Sc—Saranac silty clay loam, frequently flooded				
	90	Saranac	4w	—
ShB—Shinrock silt loam, 2 to 6 percent slopes				
	90	Shinrock	2e	—
ShC2—Shinrock silt loam, 6 to 12 percent slopes, eroded				
	90	Shinrock	3e	—
Sj—Shoals silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Shoals	2w	—
SkA—Sleeth loam, 0 to 3 percent slopes				
	85	Sleeth	2w	—
SmA—Sleeth silt loam, loamy substratum, 0 to 3 percent slopes				
	85	Sleeth	2w	—
So—Sloan silty clay loam, occasionally flooded				
	85	Sloan	3w	—
Sp—Sloan silty clay loam, till substratum, 0 to 2 percent slopes, occasionally flooded				
	85	Sloan	3w	—

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			Nonirrigated	Irrigated
St—Stone clay loam, 0 to 2 percent slopes, rarely flooded				
	85	Stone	2w	—
TrB—Tiro silt loam, 2 to 6 percent slopes				
	94	Tiro	2e	—
TyUXA—Typic Endoaquents-Urban land complex, till substratum, 0 to 3 percent slopes				
	65	Typic endoaquents, till substratum	—	—
	30	Urban land, residential	—	—
UAzXA—Urban land-Aquents, clayey, complex, 0 to 3 percent slopes				
	65	Urban land, commercial/industrial	—	—
	30	Aquents, clayey	—	—
Ud—Udorthents, loamy				
	80	Udorthents	—	—
UEBXA—Urban land-Aeric Epiaquents-Blount complex, 0 to 3 percent slopes				
	40	Urban land, residential	—	—
	35	Aeric epiaquents, till substratum	—	—
	20	Blount, urban	—	—
UFGXB—Urban land-Alfic Udarents-Glynwood complex, 1 to 8 percent slopes				
	40	Urban land, residential	—	—
	35	Alfic udarents, till substratum	—	—
	20	Glynwood, urban	—	—
UOrXB—Urban land-Orthents, clayey, complex, 1 to 8 percent slopes				
	65	Urban land, commercial/industrial	—	—
	30	Orthents, clayey	2e	—
Ur—Urban land				
	95	Urban land, commercial/industrial	—	—
	5	Orthents, clayey	2e	—
UTWXA—Urban land-Typic Endoaquents-Pewamo complex, 0 to 3 percent slopes				
	40	Urban land, residential	—	—
	35	Typic endoaquents, till substratum	—	—
	20	Pewamo, urban	—	—

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			Nonirrigated	Irrigated
W—Water				
	100	Water	—	—
We—Westland clay loam				
	90	Westland	2w	—
WhA—Whitaker loam, 0 to 3 percent slopes				
	85	Whitaker	2w	—

### Data Source Information

Soil Survey Area: Marion County, Ohio  
 Survey Area Data: Version 16, Sep 19, 2014