

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—Defiance County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BhA—Bixler loamy sand, clayey substratum, 0 to 2 percent slopes				
	92	Bixler	2w	—
BkB—Blount loam, 2 to 6 percent slopes				
	85	Blount	2e	—
BmB—Belmore loam, 2 to 6 percent slopes				
	85	Belmore	2e	—
BnA—Blount loam, 0 to 2 percent slopes				
	85	Blount	2w	—
Bp—Bono silty clay loam				
	95	Bono	3w	—
BrB—Bronson sandy loam, 1 to 6 percent slopes				
	85	Bronson	2s	2s
BsB—Boyer loamy sand, 1 to 6 percent slopes				
	85	Boyer	3s	2e
BsC—Boyer loamy sand, 6 to 12 percent slopes				
	85	Boyer	3e	3e
BuE2—Broughton silty clay loam, 18 to 35 percent slopes, eroded				
	95	Broughton	7e	—
BvE—Broughton silt loam, 12 to 35 percent slopes				
	85	Broughton	7e	—
BwC3—Broughton clay, 6 to 12 percent slopes, severely eroded				
	85	Broughton	6e	—
BwD2—Broughton clay, 12 to 18 percent slopes, moderately eroded				
	100	Broughton	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BxC3—Broughton silty clay, 6 to 12 percent slopes, severely eroded				
	95	Broughton	6e	—
Ca—Carlisle muck				
	85	Carlisle	3w	—
Cm—Colwood loam				
	90	Colwood	2w	—
Db—Defiance silty clay loam, frequently flooded				
	90	Defiance	3w	—
DdA—Del Rey loam, 0 to 2 percent slopes				
	100	Del rey	2w	—
DeA—Del Rey silt loam, 0 to 2 percent slopes				
	100	Del rey	2w	—
DfA—Del Rey silt loam, 0 to 3 percent slopes				
	90	Del rey	2w	—
DgA—Del Rey Variant silt loam, 0 to 3 percent slopes				
	90	Del rey variant	2w	—
DmA—Digby loam, 0 to 3 percent slopes				
	92	Digby	2w	—
Ee—Eel loam				
	95	Eel	2w	—
Fc—Flatrock silt loam, frequently flooded				
	97	Flatrock	2w	—
FrA—Fulton loam, 0 to 2 percent slopes				
	94	Fulton	3w	—
FsA—Fulton loam, 0 to 3 percent slopes				
	90	Fulton	3w	—
FtA—Fulton silty clay loam, 0 to 3 percent slopes				
	90	Fulton	3w	—
FuA—Fulton silty clay loam, 0 to 2 percent slopes				
	94	Fulton	3w	—
FuB—Fulton silty clay loam, 2 to 6 percent slopes				
	90	Fulton	3e	—

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			Nonirrigated	Irrigated
FvA—Fulton silty clay loam, loamy substratum, 0 to 2 percent slopes				
	95	Fulton	3w	—
Ge—Genesee loam, occasionally flooded				
	85	Genesee	2w	—
Gf—Gilford fine sandy loam				
	85	Gilford	2w	—
GwB—Glynwood loam, 2 to 6 percent slopes				
	85	Glynwood	2e	—
GwB2—Glynwood loam, 2 to 6 percent slopes, eroded				
	85	Glynwood	2e	—
GwC2—Glynwood loam, 6 to 12 percent slopes, eroded				
	90	Glynwood	4e	—
GwD2—Glynwood loam, 12 to 18 percent slopes, moderately eroded				
	100	Glynwood	4e	—
Gx—Granby loamy sand, clayey substratum				
	92	Granby	4w	—
HaB—Haney loam, 1 to 6 percent slopes				
	95	Haney	2e	—
HbA—Haney loam, 0 to 2 percent slopes				
	95	Haney	1	—
HcA—Hoytville silty clay loam, 0 to 1 percent slopes				
	91	Hoytville	2w	—
HhA—Haskins loamy sand, 0 to 2 percent slopes				
	88	Haskins	2w	—
HkA—Haskins fine sandy loam, 0 to 2 percent slopes				
	95	Haskins	2w	—
HmA—Haskins sandy loam, 0 to 3 percent slopes				
	95	Haskins	2w	—
HnA—Haskins loam, 0 to 3 percent slopes				
	90	Haskins	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HoA--Hoytville clay loam, 0 to 1 percent slopes				
	91	Hoytville	2w	—
HpA--Haskins loam, 0 to 2 percent slopes				
	95	Haskins	2w	—
HvA--Hoytville clay, 0 to 1 percent slopes				
	88	Hoytville	2w	—
KfA--Kibbie loam, 0 to 3 percent slopes				
	90	Kibbie	2w	—
Kn--Knoxdale silt loam, occasionally flooded				
	97	Knoxdale	2w	—
Lb--Landes fine sandy loam, occasionally flooded				
	90	Landes	2w	—
Lc--Latty silty clay				
	90	Latty	3w	—
Lf--Lenawee silty clay loam				
	95	Lenawee	2w	—
LwB--Lucas silty clay loam, 2 to 6 percent slopes				
	100	Lucas	3e	—
LwC2--Lucas silty clay loam, 6 to 12 percent slopes, moderately eroded				
	100	Lucas	4e	—
LwD2--Lucas silty clay loam, 12 to 18 percent slopes, moderately eroded				
	100	Lucas	6e	—
Mc--Medway silt loam				
	100	Medway	2w	—
Md--Mermill loam				
	90	Mermill	2w	—
Me--Mermill clay loam				
	95	Mermill	2w	—
Mg--Millgrove clay loam				
	95	Millgrove	2w	—
Mh--Millgrove loam				
	90	Millgrove	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MrD2—Morley clay loam, 12 to 18 percent slopes, eroded				
	85	Morley	4e	—
NmA—Nappanee loam, 0 to 2 percent slopes				
	100	Nappanee	3w	—
NmB—Nappanee loam, 2 to 6 percent slopes				
	100	Nappanee	3e	—
NnA—Nappanee loam, 0 to 3 percent slopes				
	85	Nappanee	3w	—
NpA—Nappanee silty clay loam, 0 to 3 percent slopes				
	90	Nappanee	3w	—
NrA—Nappanee silty clay loam, 0 to 2 percent slopes				
	90	Nappanee	3w	—
OrC—Oshtemo loamy sand, 6 to 12 percent slopes				
	100	Oshtemo	3e	3e
OsB—Oshtemo sandy loam, 2 to 6 percent slopes				
	80	Oshtemo	3s	3e
OtB—Ottokee loamy fine sand, 1 to 6 percent slopes				
	85	Ottokee	3s	—
Pa—Paulding clay, 0 to 1 percent slopes				
	93	Paulding	3w	—
Pm—Pewamo silty clay loam				
	85	Pewamo	2w	—
Pt—Pits, gravel				
	100	Pits	—	—
RkC—Rawson loam, 6 to 12 percent slopes				
	100	Rawson	3e	—
RmB—Rawson sandy loam, 2 to 6 percent slopes				
	90	Rawson	2e	—
RmC—Rawson sandy loam, 6 to 12 percent slopes				
	100	Rawson	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RnA—Rimer loamy fine sand, 0 to 3 percent slopes				
	85	Rimer	2w	—
RoA—Rimer loamy sand, 0 to 2 percent slopes				
	96	Rimer	2w	—
RpA—Rimer loamy fine sand, 0 to 2 percent slopes				
	95	Rimer	2w	—
RrA—Roselms loam, 0 to 3 percent slopes				
	95	Roselms	3w	—
RsA—Roselms silty clay, 0 to 3 percent slopes				
	95	Roselms	3w	—
RtA—Roselms silty clay loam, 0 to 2 percent slopes				
	97	Roselms	3w	—
RtB—Roselms silty clay loam, 2 to 6 percent slopes				
	95	Roselms	3w	—
Ru—Ross silt loam, occasionally flooded				
	85	Ross	2w	—
RvA—Roselms loam, 0 to 2 percent slopes				
	95	Roselms	3w	—
RwA—Roselms silty clay, 0 to 2 percent slopes				
	95	Roselms	3w	—
RwB—Roselms silty clay, 2 to 6 percent slopes				
	95	Roselms	3w	—
SaB—St. Clair loam, 2 to 6 percent slopes				
	90	St. clair	3e	—
SbB2—St. Clair silty clay loam, 2 to 6 percent slopes, moderately eroded				
	100	St. clair	3e	—
SbC2—St. Clair silty clay loam, 6 to 12 percent slopes, eroded				
	80	St. clair	4e	—
SbE—St. Clair silty clay loam, 18 to 35 percent slopes				
	80	St. clair	7e	—

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			Nonirrigated	Irrigated
ScD3—St. Clair clay, 12 to 18 percent slopes, severely eroded				
	90	St. clair	6e	—
ScE3—St. Clair clay, 18 to 35 percent slopes, severely eroded				
	85	St. clair	7e	—
SdB—Seward loamy fine sand, 1 to 6 percent slopes				
	90	Seward	2e	—
SeB—Seward loamy fine sand, 2 to 6 percent slopes				
	100	Seward	2e	—
SfE3—St. Clair silty clay, 12 to 25 percent slopes, severely eroded				
	95	St. clair	7e	—
SfF3—St. Clair silty clay, 25 to 45 percent slopes, severely eroded				
	95	St. clair	7e	—
Sh—Shoals silt loam, frequently flooded				
	80	Shoals	2w	—
So—Sloan silty clay loam, frequently flooded				
	90	Sloan	3w	—
TdA—Tedrow loamy fine sand, 0 to 3 percent slopes				
	85	Tedrow	3s	—
Tn—Toledo silty clay loam				
	90	Toledo	3w	—
To—Toledo silty clay				
	95	Toledo	3w	—
TsB—Tuscola very fine sandy loam, 2 to 6 percent slopes				
	90	Tuscola	2e	—
TtC2—Tuscola loam, 6 to 12 percent slopes, moderately eroded				
	100	Tuscola	3e	—
Ud—Udorthents, rolling				
	95	Udorthents	—	—
Ur—Urban land				
	100	Urban land	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
W—Water				
	100	Water	—	—
Wa—Wabasha silty clay loam, frequently flooded				
	100	Wabasha	3w	—
Wc—Walkkill Variant silty clay loam				
	100	Walkkill variant	3w	—
Wd—Walkkill Variant silty clay				
	85	Walkkill variant	3w	—
Wf—Wauseon fine sandy loam				
	85	Wauseon	3w	—

Data Source Information

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