

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—Williams County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
ApB—Arkport loamy fine sand, 2 to 6 percent slopes				
	95	Arkport	2e	—
BIB—Belmore sandy loam, 1 to 6 percent slopes				
	95	Belmore	2e	—
BnA—Blount loam, 0 to 2 percent slopes				
	85	Blount	2w	—
BnB—Blount loam, 2 to 6 percent slopes				
	85	Blount	2e	—
BnB2—Blount loam, 2 to 6 percent slopes, moderately eroded				
	95	Blount	2e	—
BoA—Blount loam, loamy substratum, 0 to 2 percent slopes				
	95	Blount	2w	—
BoB—Blount loam, loamy substratum, 2 to 6 percent slopes				
	100	Blount	2e	—
Bp—Bono silty clay loam				
	100	Bono	3w	—
BrB—Boyer loamy sand, 1 to 6 percent slopes				
	100	Boyer	3s	—
BrC—Boyer loamy sand, 6 to 12 percent slopes				
	100	Boyer	3e	—
BsD—Boyer gravelly loamy sand, 12 to 18 percent slopes				
	100	Boyer	4e	—
BtB—Bronson sandy loam, 1 to 6 percent slopes				
	85	Bronson	2s	2s
Ca—Carlisle muck				
	100	Carlisle	3w	—

Land Capability Classification--Williams County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ce—Ceresco sandy loam				
	95	Ceresco	2w	—
Ch—Cohoctah loam				
	95	Cohoctah	3w	—
Cn—Colwood loam				
	85	Colwood	2w	—
Cp—Colwood silt loam				
	95	Colwood	2w	—
DdA—Del Rey silt loam, 0 to 3 percent slopes				
	85	Del rey	2w	—
DeA—Del Rey loam, 0 to 2 percent slopes				
	95	Del rey	2w	—
DeB—Del Rey loam, 2 to 6 percent slopes				
	95	Del rey	2e	—
DfA—Del Rey silty clay loam, 0 to 2 percent slopes				
	95	Del rey	2w	—
DfB—Del Rey silty clay loam, 2 to 6 percent slopes				
	95	Del rey	2e	—
DgA—Digby sandy loam, 0 to 3 percent slopes				
	95	Digby	2w	—
DmA—Digby loam, 0 to 3 percent slopes				
	95	Digby	2w	—
Ed—Edwards muck				
	100	Edwards	4w	—
Ee—Eel loam				
	95	Eel	2w	—
FsA—Fulton loam, 0 to 2 percent slopes				
	95	Fulton	3w	—
FsB—Fulton loam, 2 to 6 percent slopes				
	100	Fulton	3e	—
FuA—Fulton silty clay loam, 0 to 2 percent slopes				
	95	Fulton	3w	—

Land Capability Classification--Williams County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FuB—Fulton silty clay loam, 2 to 6 percent slopes				
	100	Fulton	3e	—
FvA—Fulton silty clay loam, 0 to 3 percent slopes				
	90	Fulton	3w	—
Ge—Genesee loam				
	95	Genesee	2w	—
Gf—Gilford fine sandy loam				
	95	Gilford	2w	—
GIB—Glynwood loam, 2 to 6 percent slopes				
	100	Glynwood	2e	—
GIB2—Glynwood loam, 2 to 6 percent slopes, moderately eroded				
	100	Glynwood	3e	—
GIC—Glynwood loam, 6 to 12 percent slopes				
	100	Glynwood	3e	—
GIC2—Glynwood loam, 6 to 12 percent slopes, moderately eroded				
	100	Glynwood	4e	—
GID2—Glynwood loam, 12 to 18 percent slopes, moderately eroded				
	100	Glynwood	4e	—
GIE2—Glynwood loam, 18 to 40 percent slopes, moderately eroded				
	100	Glynwood	7e	—
HaB—Haney loam, 1 to 6 percent slopes				
	95	Haney	2e	—
HcA—Hoytville silty clay loam, 0 to 1 percent slopes				
	91	Hoytville	2w	—
HeB—Haney-Rawson sandy loams, 1 to 6 percent slopes				
	55	Haney	2e	—
	35	Rawson	2e	—
HeC—Haney-Rawson sandy loams, 6 to 12 percent slopes				
	55	Haney	3e	—
	35	Rawson	3e	—

Land Capability Classification--Williams County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HhA—Haskins fine sandy loam, 0 to 2 percent slopes				
	95	Haskins	2w	—
HkA—Haskins sandy loam, 0 to 3 percent slopes				
	95	Haskins	2w	—
HnA—Haskins loam, 0 to 3 percent slopes				
	95	Haskins	2w	—
HoA—Hoytville clay loam, 0 to 1 percent slopes				
	91	Hoytville	2w	—
KIA—Kibbie very fine sandy loam, 0 to 2 percent slopes				
	95	Kibbie	2w	—
KIB—Kibbie very fine sandy loam, 2 to 6 percent slopes				
	95	Kibbie	2e	—
KmA—Kibbie loam, 0 to 3 percent slopes				
	85	Kibbie	2w	—
La—Lamson very fine sandy loam				
	95	Lamson	3w	—
Lb—Landes sandy loam				
	100	Landes	2w	—
Lc—Latty silty clay				
	95	Latty	3w	—
Lf—Lenawee silty clay loam				
	95	Lenawee	2w	—
LuB2—Lucas silty clay loam, 2 to 6 percent slopes, moderately eroded				
	100	Lucas	3e	—
LuC2—Lucas silty clay loam, 6 to 12 percent slopes, moderately eroded				
	100	Lucas	4e	—
LuD2—Lucas silty clay loam, 12 to 25 percent slopes, moderately eroded				
	100	Lucas	6e	—
LwC3—Lucas silty clay, 6 to 12 percent slopes, severely eroded				
	95	Lucas	6e	—

Land Capability Classification--Williams County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LwE3—Lucas silty clay, 12 to 45 percent slopes, severely eroded				
	95	Lucas	7e	—
Ma—Martisco muck				
	100	Martisco	3w	—
Md—Mermill loam				
	95	Mermill	2w	—
Mh—Millgrove loam				
	95	Millgrove	2w	—
Mk—Millgrove clay loam				
	95	Millgrove	2w	—
NnA—Nappanee loam, 0 to 2 percent slopes				
	100	Nappanee	3w	—
NnB—Nappanee loam, 2 to 6 percent slopes				
	100	Nappanee	3e	—
NpA—Nappanee silty clay loam, 0 to 2 percent slopes				
	100	Nappanee	3w	—
OpB—Oshtemo loamy sand, 0 to 6 percent slopes				
	85	Oshtemo	3s	3e
OrB—Oshtemo loamy sand, 2 to 6 percent slopes				
	100	Oshtemo	3s	3e
OrC—Oshtemo loamy sand, 6 to 12 percent slopes				
	100	Oshtemo	3e	3e
OsB—Oshtemo sandy loam, 2 to 6 percent slopes				
	100	Oshtemo	3s	3e
OtB—Ottokee fine sand, 0 to 6 percent slopes				
	100	Ottokee	3s	—
Pa—Paulding clay				
	95	Paulding	3w	—
Pk—Pewamo clay loam				
	90	Pewamo	2w	—
Pm—Pewamo silty clay loam				
	95	Pewamo	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Pt—Pits, gravel				
	100	Pits	—	—
RIB—Rawson sandy loam, 2 to 6 percent slopes				
	100	Rawson	2e	—
RIC—Rawson sandy loam, 6 to 12 percent slopes				
	100	Rawson	3e	—
RmB—Rawson loam, 2 to 6 percent slopes				
	100	Rawson	2e	—
RmC—Rawson loam, 6 to 12 percent slopes				
	100	Rawson	3e	—
RnA—Rimer loamy fine sand, 0 to 3 percent slopes				
	95	Rimer	2w	—
RsA—Roselms silty clay, 0 to 2 percent slopes				
	95	Roselms	3w	—
RsB—Roselms silty clay, 2 to 6 percent slopes				
	95	Roselms	3w	—
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, moderately eroded				
	100	St. clair	4e	—
SbD2—St. Clair silty clay loam, 12 to 25 percent slopes, moderately eroded				
	100	St. clair	7e	—
ScD3—St. Clair clay, 12 to 18 percent slopes, severely eroded				
	90	St. clair	6e	—
SdB—Seward loamy fine sand, 2 to 6 percent slopes				
	100	Seward	2e	—
SdC—Seward loamy fine sand, 6 to 12 percent slopes				
	85	Seward	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
SfB2—Shinrock-Tuscola complex, 3 to 8 percent slopes, eroded				
	55	Shinrock	2e	—
	30	Tuscola	2e	—
SgB—Shinrock silt loam, 2 to 6 percent slopes				
	100	Shinrock	2e	—
SgC—Shinrock silt loam, 6 to 12 percent slopes				
	100	Shinrock	3e	—
Sh—Shoals loam				
	95	Shoals	2w	—
Sk—Shoals silt loam, frequently flooded				
	85	Shoals	2w	—
Sn—Sloan loam				
	95	Sloan	3w	—
So—Sloan silty clay loam				
	95	Sloan	3w	—
SpB—Spinks fine sand, 2 to 6 percent slopes				
	100	Spinks	3s	3s
SpC—Spinks fine sand, 6 to 18 percent slopes				
	100	Spinks	4e	—
Tn—Toledo silty clay loam				
	90	Toledo	3w	—
To—Toledo silty clay				
	95	Toledo	3w	—
TrB—Tuscola fine sandy loam, 3 to 8 percent slopes				
	85	Tuscola	2e	—
TtB—Tuscola very fine sandy loam, 2 to 6 percent slopes				
	90	Tuscola	2e	—
TuB—Tuscola Variant fine sandy loam, 1 to 6 percent slopes				
	100	Tuscola variant	2e	—
TuC—Tuscola Variant fine sandy loam, 6 to 12 percent slopes				
	100	Tuscola variant	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ud—Udorthents				
	100	Udorthents	—	—
Ue—Udorthents, loamy				
	100	Udorthents	—	—
Uf—Udorthents, sandy				
	100	Udorthents	—	—
Ur—Urban land				
	100	Urban land	—	—
W—Water				
	100	Water	—	—
Wa—Wabasha silty clay				
	95	Wabasha	3w	—
Wc—Walkill silt loam				
	100	Walkill	3w	—
Wk—Walkill Variant silty clay loam				
	100	Walkill variant	3w	—

Data Source Information

Soil Survey Area: Williams County, Ohio
 Survey Area Data: Version 10, Dec 17, 2013