

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—Richland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AcD2—Alexandria silty clay loam, 12 to 18 percent slopes, eroded				
	80	Alexandria	4e	—
AdB—Alexandria silt loam, 2 to 6 percent slopes				
	85	Alexandria	2e	—
AdC—Alexandria silt loam, 6 to 12 percent slopes				
	90	Alexandria	3e	—
AdC2—Alexandria silt loam, 6 to 12 percent slopes, moderately eroded				
	90	Alexandria	3e	—
AdD—Alexandria silt loam, 12 to 18 percent slopes				
	90	Alexandria	4e	—
AdD2—Alexandria silt loam, 12 to 18 percent slopes, moderately eroded				
	90	Alexandria	4e	—
AdE—Alexandria silt loam, 18 to 25 percent slopes				
	85	Alexandria	6e	—
AdE2—Alexandria silt loam, 18 to 25 percent slopes, moderately eroded				
	95	Alexandria	6e	—
AdF—Alexandria silt loam, 25 to 40 percent slopes				
	85	Alexandria	6e	—
AeD3—Alexandria silty clay loam, 12 to 18 percent slopes, severely eroded				
	90	Alexandria	6e	—
Ag—Algiers silt loam				
	90	Algiers	2w	—
BeB—Belmore loam, 2 to 6 percent slopes				
	100	Belmore	2e	—

Land Capability Classification--Richland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BeC—Belmore loam, 6 to 12 percent slopes				
	100	Belmore	3e	—
BeD—Belmore loam, 12 to 18 percent slopes				
	95	Belmore	4e	—
BnA—Bennington silt loam, 0 to 2 percent slopes				
	90	Bennington	2w	—
BnB—Bennington silt loam, 2 to 6 percent slopes				
	90	Bennington	2e	—
BnB2—Bennington silt loam, 2 to 6 percent slopes, moderately eroded				
	90	Bennington	3e	—
BpB—Bennington-Fitchville silt loams, 2 to 6 percent slopes				
	55	Bennington	2e	—
	35	Fitchville	2e	—
BrB—Berks channery silt loam, 2 to 6 percent slopes				
	90	Berks	2e	—
BrC—Berks channery silt loam, 6 to 12 percent slopes				
	95	Berks	3e	—
BrD—Berks channery silt loam, 12 to 18 percent slopes				
	90	Berks	4e	—
BsF—Berks-Rock outcrop complex, steep				
	60	Berks	7e	—
	20	Rock outcrop	—	—
BtA—Bogart loam, 0 to 2 percent slopes				
	100	Bogart	2s	—
BtB—Bogart loam, 2 to 6 percent slopes				
	95	Bogart	2e	—
BvA—Bogart silt loam, 0 to 2 percent slopes				
	100	Bogart	1	—
BvB—Bogart silt loam, 2 to 6 percent slopes				
	100	Bogart	2e	—

Land Capability Classification--Richland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BwC—Brownsville channery silt loam, 6 to 12 percent slopes				
	90	Brownsville	3e	—
BwD—Brownsville channery silt loam, 12 to 18 percent slopes				
	85	Brownsville	4e	—
BxE—Brownsville-Westmoreland complex, 18 to 25 percent slopes				
	60	Brownsville	4e	—
	30	Westmoreland	4e	—
CdB—Canfield silt loam, 2 to 6 percent slopes				
	90	Canfield	2e	—
CdB2—Canfield silt loam, 2 to 6 percent slopes, eroded				
	90	Canfield, eroded	2e	—
CdC—Canfield silt loam, 6 to 12 percent slopes				
	90	Canfield	3e	—
CdC2—Canfield silt loam, 6 to 12 percent slopes, eroded				
	90	Canfield, eroded	3e	—
CgB—Cardington silt loam, 2 to 6 percent slopes				
	100	Cardington	2e	—
CgB2—Cardington silt loam, 2 to 6 percent slopes, moderately eroded				
	100	Cardington	2e	—
CgC—Cardington silt loam, 6 to 12 percent slopes				
	85	Cardington	3e	—
CgC2—Cardington silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Cardington	3e	—
ChC3—Cardington silty clay loam, 6 to 12 percent slopes, severely eroded				
	95	Cardington	4e	—
Ck—Carlisle muck				
	100	Carlisle	3w	—
CmB—Chili silt loam, 2 to 6 percent slopes				
	90	Chili	2e	—

Land Capability Classification--Richland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CnB—Chili loam, 2 to 6 percent slopes				
	95	Chili	2e	—
CnC—Chili loam, 6 to 12 percent slopes				
	95	Chili	3e	—
CoD—Chili and Conotton soils, 12 to 18 percent slopes				
	49	Chili	6e	—
	49	Conotton	6e	—
CoD3—Chili and Conotton soils, 12 to 18 percent slopes, severely eroded				
	45	Chili	6e	—
	45	Conotton	6e	—
CoE—Chili and Conotton soils, 18 to 25 percent slopes				
	49	Conotton	7e	—
	49	Chili	7e	—
CoF—Chili and Conotton soils, 25 to 40 percent slopes				
	47	Chili	7e	—
	47	Conotton	7e	—
Cp—Condit silty clay loam				
	90	Condit	3w	—
Cr—Condit silt loam, 0 to 1 percent slopes				
	90	Condit	3w	—
Cs—Condit-Bennington silt loams				
	50	Condit	3w	—
	30	Bennington	2w	—
CtC—Conotton gravelly loam, 2 to 12 percent slopes				
	100	Conotton	4e	—
CvC—Coshocton loam, 6 to 15 percent slopes				
	100	Coshocton	3e	—
DmB—Digby loam, 1 to 4 percent slopes				
	95	Digby	2e	—
FbA—Fitchville silt loam, 1 to 4 percent slopes				
	90	Fitchville	2w	—

Land Capability Classification--Richland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FcA—Fitchville silt loam, 0 to 2 percent slopes				
	90	Fitchville	2w	—
FcB—Fitchville silt loam, 2 to 6 percent slopes				
	95	Fitchville	2e	—
FdA—Fitchville-Bennington silt loams, 0 to 2 percent slopes				
	55	Fitchville	2w	—
	35	Bennington	2w	—
FgA—Fitchville silt loam, gravelly subsoil variant, 0 to 2 percent slopes				
	95	Fitchville variant	2w	—
FgB—Fitchville silt loam, gravelly subsoil variant, 2 to 6 percent slopes				
	95	Fitchville variant	2e	—
Fr—Frenchtown silt loam				
	100	Frenchtown	3w	—
GdB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GdC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GfA—Glenford silt loam, 0 to 2 percent slopes				
	100	Glenford	1	—
GfB—Glenford silt loam, 2 to 6 percent slopes				
	95	Glenford	2e	—
GfC—Glenford silt loam, 6 to 12 percent slopes				
	95	Glenford	3e	—
GrB—Gresham silt loam, 2 to 6 percent slopes				
	95	Gresham	2e	—
HaB—Haney loam, 2 to 6 percent slopes				
	100	Haney	2e	—
HfB—Hanover silt loam, 2 to 6 percent slopes				
	95	Hanover	2e	—
HfC—Hanover silt loam, 6 to 12 percent slopes				
	95	Hanover	3e	—
HfC2—Hanover silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Hanover	3e	—

Land Capability Classification--Richland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HfC3--Hanover silt loam, 6 to 12 percent slopes, severely eroded				
	95	Hanover	4e	—
HfD--Hanover silt loam, 12 to 18 percent slopes				
	95	Hanover	4e	—
HfD2--Hanover silt loam, 12 to 18 percent slopes, moderately eroded				
	95	Hanover	4e	—
HfE--Hanover silt loam, 18 to 25 percent slopes				
	85	Hanover	6e	—
Ho--Holly silt loam				
	95	Holly	3w	—
HpB--Homewood silt loam, 2 to 6 percent slopes				
	85	Homewood	2e	—
HpC--Homewood silt loam, 6 to 12 percent slopes				
	90	Homewood	3e	—
HpD2--Homewood silt loam, 12 to 18 percent slopes, eroded				
	90	Homewood	4e	—
HpE2--Homewood silt loam, 18 to 25 percent slopes, eroded				
	90	Homewood	6e	—
JtA--Jimtown loam, 0 to 2 percent slopes				
	94	Jimtown	2w	—
KbA--Kibbie loam, 0 to 2 percent slopes				
	90	Kibbie	2w	—
La--Landes fine sandy loam				
	85	Landes	2s	—
LfB--Latham silt loam, 3 to 8 percent slopes				
	90	Latham	2e	—
LfC--Latham silt loam, 8 to 15 percent slopes				
	90	Latham	3e	—
Lg--Lenawee silty clay loam				
	100	Lenawee	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Lk--Linwood muck				
	100	Linwood	2w	—
Lo--Lobdell silt loam				
	95	Lobdell	2w	—
LrB--Lordstown silt loam, 2 to 6 percent slopes				
	95	Lordstown	2e	—
LrC--Lordstown silt loam, 6 to 12 percent slopes				
	90	Lordstown	3e	—
LrD--Lordstown silt loam, 12 to 18 percent slopes				
	90	Lordstown	4e	—
LrE--Lordstown silt loam, 18 to 25 percent slopes				
	100	Lordstown	6e	—
LrF--Lordstown silt loam, 25 to 40 percent slopes				
	100	Lordstown	6e	—
LtE--Lordstown and Loudonville silt loams, 18 to 25 percent slopes				
	45	Loudonville	6e	—
	45	Lordstown	4e	—
LtF--Lordstown and Loudonville silt loams, 25 to 40 percent slopes				
	45	Lordstown	6e	—
	45	Loudonville	6e	—
LvB--Loudonville silt loam, 2 to 6 percent slopes				
	95	Loudonville	2e	—
LvC--Loudonville silt loam, 6 to 12 percent slopes				
	95	Loudonville	3e	—
LvD--Loudonville silt loam, 12 to 18 percent slopes				
	95	Loudonville	4e	—
Ly--Luray silty clay loam				
	100	Luray	2w	—
LzB--Lykens silt loam, 2 to 6 percent slopes				
	100	Lykens	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MeB—Mentor silt loam, 2 to 6 percent slopes				
	100	Mentor	2e	—
MeC—Mentor silt loam, 6 to 12 percent slopes				
	90	Mentor	3e	—
Op—Olmsted silty clay loam				
	100	Olmsted	2w	—
Or—Orrville loam, moderately shallow variant				
	100	Orrville variant	2w	—
Pa—Pewamo silt loam				
	95	Pewamo	2w	—
Pc—Pewamo silt loam, overwash				
	100	Pewamo	2w	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—
Pm—Pewamo silty clay loam				
	95	Pewamo	2w	—
ReA—Ravenna silt loam, 0 to 2 percent slopes				
	95	Ravenna	2w	—
ReB—Ravenna silt loam, 2 to 6 percent slopes				
	95	Ravenna	2e	—
RsB—Rittman silt loam, 2 to 6 percent slopes				
	95	Rittman	2e	—
RsB2—Rittman silt loam, 2 to 6 percent slopes, moderately eroded				
	100	Rittman	2e	—
RsC—Rittman silt loam, 6 to 12 percent slopes				
	85	Rittman	3e	—
RsC2—Rittman silt loam, 6 to 12 percent slopes, moderately eroded				
	85	Rittman	3e	—
RsD—Rittman silt loam, 12 to 18 percent slopes				
	85	Rittman	4e	—
RsD2—Rittman silt loam, 12 to 18 percent slopes, moderately eroded				
	85	Rittman	4e	—

Land Capability Classification--Richland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RtC3—Rittman silty clay loam, 6 to 12 percent slopes, severely eroded				
	85	Rittman	4e	—
RtD3—Rittman silty clay loam, 12 to 18 percent slopes, severely eroded				
	85	Rittman	6e	—
SaC—Schaffenaker loamy sand, 2 to 12 percent slopes				
	100	Schaffenaker	4s	—
SaD—Schaffenaker loamy sand, 12 to 18 percent slopes				
	100	Schaffenaker	6s	—
SaE—Schaffenaker loamy sand, 18 to 40 percent slopes				
	95	Schaffenaker	7s	—
SbE—Schaffenaker loamy sand, 10 to 40 percent slopes				
	100	Schaffenaker	4s	—
Se—Sebring silt loam				
	95	Sebring	3w	—
Sh—Shoals silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Shoals	2w	—
Sk—Shoals loam, coarse subsoil variant				
	95	Shoals variant	2w	—
SmA—Sleeth silt loam, loamy substratum, 0 to 3 percent slopes				
	85	Sleeth	2w	—
So—Sloan silty clay loam				
	95	Sloan	3w	—
TmA—Tiro silt loam, 0 to 2 percent slopes				
	90	Tiro	2w	—
TmB—Tiro silt loam, 2 to 6 percent slopes				
	90	Tiro	2e	—
TvB—Titusville silt loam, 2 to 6 percent slopes				
	95	Titusville	2e	—
TvC—Titusville silt loam, 6 to 12 percent slopes				
	95	Titusville	3e	—

Land Capability Classification--Richland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Uc—Udorthents				
	100	Udorthents	—	—
Ud—Udorthents, loamy				
	100	Udorthents	—	—
Ur—Urban land				
	100	Urban land	—	—
W—Water				
	100	Water	—	—
WaA—Wadsworth silt loam, 0 to 2 percent slopes				
	95	Wadsworth	3w	—
WaB—Wadsworth silt loam, 2 to 6 percent slopes				
	90	Wadsworth	3e	—
Wc—Walkkill silt loam				
	100	Walkkill	3w	—
WeD—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—
WhA—Wheeling silt loam, 0 to 2 percent slopes				
	100	Wheeling	1	—
WhB—Wheeling silt loam, 2 to 6 percent slopes				
	100	Wheeling	2e	—
WhC—Wheeling silt loam, 6 to 12 percent slopes				
	100	Wheeling	3e	—
WmD—Wheeling and Mentor silt loams, 12 to 18 percent slopes				
	48	Mentor	4e	—
	48	Wheeling	4e	—
WsB—Wooster silt loam, 2 to 6 percent slopes				
	95	Wooster	2e	—
WsB2—Wooster silt loam, 2 to 6 percent slopes, moderately eroded				
	100	Wooster	2e	—
WsC—Wooster silt loam, 6 to 12 percent slopes				
	95	Wooster	3e	—

Land Capability Classification--Richland County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WsC2—Wooster silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Wooster	3e	—
WsD—Wooster silt loam, 12 to 18 percent slopes				
	95	Wooster	4e	—
WsD2—Wooster silt loam, 12 to 18 percent slopes, moderately eroded				
	85	Wooster	4e	—
WsD3—Wooster silt loam, 12 to 18 percent slopes, severely eroded				
	85	Wooster	4e	—
WsE—Wooster silt loam, 18 to 25 percent slopes				
	85	Wooster	6e	—
WsE2—Wooster silt loam, 18 to 25 percent slopes, eroded				
	85	Wooster	6e	—
WsF—Wooster silt loam, 25 to 40 percent slopes				
	85	Wooster	6e	—
WtB—Wooster-Chili soils, 2 to 6 percent slopes				
	80	Wooster	2e	—
	20	Chili	2e	—
WtC—Wooster-Chili soils, 6 to 12 percent slopes				
	65	Wooster	3e	—
	35	Chili	3e	—
WvE3—Wooster silt loam, 18 to 40 percent slopes, severely eroded				
	85	Wooster	7e	—

Data Source Information

Soil Survey Area: Richland County, Ohio
 Survey Area Data: Version 10, Sep 19, 2014