

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--Clinton County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BhA—Birkbeck silt loam, 0 to 2 percent slopes				
	80	Birkbeck	1	—
BhB—Birkbeck silt loam, 2 to 6 percent slopes				
	75	Birkbeck	2e	—
Bln3A—Blanchester silty clay loam, 0 to 1 percent slopes				
	90	Blanchester	3w	—
CaD2—Casco silt loam, 12 to 18 percent slopes, eroded				
	85	Casco	6e	—
CaE2—Casco silt loam, 18 to 50 percent slopes, eroded				
	85	Casco	7e	—
CbB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—
CbB2—Celina silt loam, 2 to 6 percent slopes, eroded				
	90	Celina	2e	—
CcA—Celina-Crosby silt loams, 0 to 2 percent slopes				
	70	Celina	1	—
	15	Crosby	2w	—
CeB—Celina-Losantville silt loams, 2 to 6 percent slopes				
	50	Celina	2e	—
	30	Losantville	2e	—
CeB2—Celina-Losantville silt loams, 2 to 6 percent slopes, eroded				
	60	Celina	2e	—
	30	Losantville	2e	—
Cle1A—Clermont silt loam, 0 to 1 percent slopes				
	90	Clermont	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CpA—Coblen loam, 0 to 2 percent slopes, rarely flooded				
	90	Coblen	1	—
CrB—Corwin silt loam, 2 to 6 percent slopes				
	90	Corwin	2e	—
CtA—Crosby-Celina silt loams, 0 to 2 percent slopes				
	70	Crosby	2w	—
	15	Celina	1	—
CtB—Crosby-Celina silt loams, 2 to 4 percent slopes				
	60	Crosby	2e	—
	30	Celina	2e	—
CuC2—Crouse-Miamian silt loams, 6 to 12 percent slopes, eroded				
	60	Crouse	3e	—
	30	Miamian	3e	—
CuD2—Crouse-Miamian silt loams, 12 to 18 percent slopes, eroded				
	60	Crouse	4e	—
	30	Miamian	4e	—
DhA—Dunham silt loam, 0 to 2 percent slopes, overwash				
	90	Dunham	2w	—
DuA—Dunham silty clay loam, 0 to 2 percent slopes				
	90	Dunham	2w	—
EgB—Eldean silt loam, 2 to 6 percent slopes				
	95	Eldean	2e	—
EkC2—Eldean gravelly loam, 6 to 12 percent slopes, eroded				
	95	Eldean	3e	—
FgA—Fincastle silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Fincastle	2w	—
FgB—Fincastle silt loam, 2 to 4 percent slopes				
	90	Fincastle	2e	—
FnA—Fox silt loam, 0 to 2 percent slopes				
	100	Fox	2s	—

Land Capability Classification--Clinton County, Ohio				
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				
	100	Fox	2e	—
FnC2—Fox silt loam, 6 to 12 percent slopes, eroded				
	100	Fox	3e	—
HkD2—Hickory silt loam, 12 to 18 percent slopes, eroded				
	85	Hickory	3e	—
HkE2—Hickory silt loam, 18 to 25 percent slopes, eroded				
	85	Hickory	6e	—
HkF2—Hickory silt loam, 25 to 35 percent slopes, eroded				
	85	Hickory	7e	—
HnE2—Hickory-Morrisville silt loams, 18 to 25 percent slopes, eroded				
	60	Hickory	6e	—
	30	Morrisville	6e	—
JoR1A1—Jonesboro-Rossmoyne silt loams, 0 to 2 percent slopes				
	50	Jonesboro	2w	—
	35	Rossmoyne	2w	—
JoR1B1—Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes				
	50	Jonesboro	2e	—
	45	Rossmoyne	2e	—
JrC2—Jonesboro-Rossmoyne silt loams, 6 to 12 percent slopes, eroded				
	65	Jonesboro	3e	—
	20	Rossmoyne	3e	—
KnA—Kokomo silt loam, 0 to 1 percent slopes				
	95	Kokomo	2w	—
KoA—Kokomo silty clay loam, 0 to 1 percent slopes				
	95	Kokomo	2w	—
LbA—Libre silt loam, 0 to 2 percent slopes				
	95	Libre	1	—
LbB—Libre silt loam, 2 to 6 percent slopes				
	90	Libre	2e	—

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			Nonirrigated	Irrigated
LbC2—Libre silt loam, 6 to 12 percent slopes, eroded				
	90	Libre	3e	—
LoC2—Loudon silt loam, 6 to 12 percent slopes, eroded				
	90	Loudon	3e	—
LuA—Lumberton silt loam, 0 to 2 percent slopes				
	100	Lumberton	1	—
LuB—Lumberton silt loam, 2 to 6 percent slopes				
	90	Lumberton	2e	—
LuC2—Lumberton silt loam, 6 to 12 percent slopes, eroded				
	90	Lumberton	3e	—
LuD2—Lumberton silt loam, 12 to 18 percent slopes, eroded				
	85	Lumberton	4e	—
LuF2—Lumberton silt loam, 25 to 50 percent slopes, eroded				
	80	Lumberton	7e	—
MhB2—Miamian silt loam, 2 to 6 percent slopes, eroded				
	85	Miamian, eroded	2e	—
MhC2—Miamian silt loam, 6 to 12 percent slopes, eroded				
	85	Miamian	3e	—
MhD2—Miamian silt loam, 12 to 18 percent slopes, eroded				
	95	Miamian	4e	—
MnE2—Miamian-Thrifton complex, 18 to 25 percent slopes, eroded				
	70	Miamian	6e	—
	20	Thrifton	6e	—
MnF2—Miamian-Thrifton complex, 25 to 50 percent slopes, eroded				
	70	Miamian	7e	—
	25	Thrifton	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MoE2—Miamiian-Crouse silt loams, 18 to 25 percent slopes, eroded				
	60	Miamiian	6e	—
	30	Crouse	6e	—
MoF2—Miamiian-Crouse silt loams, 25 to 50 percent slopes, eroded				
	60	Miamiian	7e	—
	35	Crouse	7e	—
MvD2—Morrisville silty clay loam, 12 to 18 percent slopes, eroded				
	80	Morrisville	4e	—
MvE2—Morrisville silty clay loam, 18 to 25 percent slopes, eroded				
	90	Morrisville	6e	—
NhC2—Nicely silt loam, 6 to 12 percent slopes, eroded				
	90	Nicely	3e	—
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	—
OdA—Ockley silt loam, till substratum, 0 to 2 percent slopes				
	90	Ockley	1	—
OdB—Ockley silt loam, till substratum, 2 to 6 percent slopes				
	95	Ockley	2e	—
OdC2—Ockley silt loam, till substratum, 6 to 12 percent slopes, eroded				
	90	Ockley	3e	—
OeA—Odell silt loam, 0 to 2 percent slopes				
	100	Odell	2w	—
Pg—Pits, gravel				
	100	Pits, gravel	—	—
Pk—Pits, quarry				
	100	Pits, quarry	—	—

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			Nonirrigated	Irrigated
RcA—Randolph silt loam, 0 to 2 percent slopes				
	90	Randolph	3w	—
ReA—Reesville silt loam, 0 to 2 percent slopes				
	90	Reesville	2w	—
ReB—Reesville silt loam, 2 to 4 percent slopes				
	90	Reesville	2e	—
RnA—Ross loam, 0 to 1 percent slopes, occasionally flooded				
	95	Ross	2w	—
RoA—Ross silt loam, 0 to 1 percent slopes, frequently flooded				
	95	Ross	2w	—
RsA—Rossburg silt loam, 0 to 2 percent slopes, rarely flooded				
	85	Rossburg	1	—
RuB2—Russell-Xenia silt loams, 2 to 6 percent slopes, eroded				
	60	Russell	2e	—
	20	Xenia	2e	—
SaA—Sardinia silt loam, 0 to 2 percent slopes				
	90	Sardinia	2w	—
SaB—Sardinia silt loam, 2 to 6 percent slopes				
	85	Sardinia	2e	—
Sec1A—Secondcreek silt loam, 0 to 1 percent slopes, overwash				
	90	Secondcreek, drained	2w	—
Sec3A—Secondcreek silty clay loam, 0 to 1 percent slopes				
	93	Secondcreek, drained	2w	—
ShA—Shoals silt loam, 0 to 1 percent slopes, occasionally flooded				
	90	Shoals	2w	—
SmA—Sligo silt loam, 0 to 1 percent slopes, occasionally flooded				
	90	Sligo	2w	—
SnA—Sloan silt loam, sandy substratum, 0 to 1 percent slopes, occasionally flooded				
	90	Sloan	3w	—

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			Nonirrigated	Irrigated
SrA—Stringley-Sligo loams, 0 to 2 percent slopes, occasionally flooded				
	60	Stringley	2w	—
	30	Sligo	2w	—
TaA—Taggart silt loam, 0 to 2 percent slopes				
	90	Taggart	2w	—
TpA—Treaty silt loam, 0 to 1 percent slopes, overwash				
	90	Treaty	2w	—
TrA—Treaty silty clay loam, 0 to 1 percent slopes				
	90	Treaty	2w	—
Ud—Udorthents, loamy				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
WaC3—Wapahani-Miamian clay loams, 6 to 12 percent slopes, severely eroded				
	70	Wapahani	4e	—
	20	Miamian	4e	—
WaD3—Wapahani-Miamian clay loams, 12 to 18 percent slopes, severely eroded				
	60	Wapahani	6e	—
	30	Miamian	4e	—
WmA—Williamsburg silt loam, 0 to 2 percent slopes				
	90	Williamsburg	1	—
WmB—Williamsburg silt loam, 2 to 6 percent slopes				
	90	Williamsburg	2e	—
WsS1A1—Westboro-Schaffer silt loams, 0 to 2 percent slopes				
	55	Westboro	2w	—
	30	Schaffer	2w	—
WsS1B1—Westboro-Schaffer silt loams, 2 to 4 percent slopes				
	55	Westboro	2w	—
	30	Schaffer	2w	—

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			Nonirrigated	Irrigated
XaA—Xenia silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Xenia	1	—
XaB—Xenia silt loam, 2 to 6 percent slopes				
	90	Xenia	2e	—
XaB2—Xenia silt loam, 2 to 6 percent slopes, eroded				
	90	Xenia	2e	—

Data Source Information

Soil Survey Area: Clinton County, Ohio
 Survey Area Data: Version 15, Sep 18, 2014