

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—Fairfield County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AfB—Alford silt loam, 2 to 6 percent slopes				
	90	Alford	2e	—
AfC2—Alford silt loam, 6 to 12 percent slopes, eroded				
	90	Alford	3e	—
Ag—Aetna silt loam, occasionally flooded				
	80	Aetna	2w	—
Ah—Aetna silt loam, fan, occasionally flooded				
	85	Aetna	2w	—
AmB—Amanda silt loam, 2 to 6 percent slopes				
	85	Amanda	2e	—
AmB2—Amanda silt loam, 2 to 6 percent slopes, eroded				
	85	Amanda	2e	—
AmC2—Amanda silt loam, 6 to 12 percent slopes, eroded				
	80	Amanda	3e	—
AmD2—Amanda silt loam, 12 to 20 percent slopes, eroded				
	80	Amanda	4e	—
AmE2—Amanda silt loam, 20 to 35 percent slopes, eroded				
	90	Amanda	6e	—
AoC3—Amanda silty clay loam, 6 to 12 percent slopes, severely eroded				
	80	Amanda	4e	—
AoD3—Amanda silty clay loam, 12 to 20 percent slopes, severely eroded				
	80	Amanda	6e	—
ApB2—Amanda-Loudonville complex, 2 to 6 percent slopes, eroded				
	60	Amanda	2e	—
	30	Loudonville	2e	—

Land Capability Classification--Fairfield County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
ApC2—Amanda-Loudonville complex, 6 to 12 percent slopes, eroded				
	50	Amanda	3e	—
	40	Loudonville	3e	—
ApD2—Amanda-Loudonville complex, 12 to 20 percent slopes, eroded				
	45	Amanda	4e	—
	45	Loudonville	4e	—
ArC2—Amanda-Ockley complex, 6 to 12 percent slopes, eroded				
	50	Amanda	3e	—
	30	Ockley	3e	—
ArD2—Amanda-Ockley complex, 12 to 20 percent slopes, eroded				
	50	Amanda	4e	—
	30	Ockley	4e	—
Bb—Beaucoup silty clay loam, occasionally flooded				
	80	Beaucoup	2w	—
BeA—Bennington silt loam, 0 to 2 percent slopes				
	80	Bennington	2w	—
BeB—Bennington silt loam, 2 to 6 percent slopes				
	80	Bennington	2e	—
BkF—Berks channery silt loam, 35 to 70 percent slopes				
	85	Berks	7e	—
CaB—Cardington silt loam, 2 to 6 percent slopes				
	85	Cardington	2e	—
CaB2—Cardington silt loam, 2 to 6 percent slopes, eroded				
	85	Cardington	2e	—
CaC2—Cardington silt loam, 6 to 12 percent slopes, eroded				
	90	Cardington	3e	—
CaD2—Cardington silt loam, 12 to 20 percent slopes, eroded				
	80	Cardington	4e	—

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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	3w	—
CdF—Cedarfalls-Rock outcrop complex, 40 to 70 percent slopes				
	60	Cedarfalls	7s	—
	20	Rock outcrop	—	—
CeB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—
CfB—Centerburg silt loam, 2 to 6 percent slopes				
	80	Centerburg	2e	—
CfB2—Centerburg silt loam, 2 to 6 percent slopes, eroded				
	80	Centerburg	2e	—
CfC2—Centerburg silt loam, 6 to 12 percent slopes, eroded				
	80	Centerburg	3e	—
Cg—Chagrin silt loam, 0 to 3 percent slopes, frequently flooded				
	85	Chagrin	2w	—
CkC2—Cincinnati silt loam, 6 to 12 percent slopes, eroded				
	80	Cincinnati	3e	—
CmC2—Cincinnati-Wellston complex, 6 to 12 percent slopes, eroded				
	40	Cincinnati	3e	—
	40	Wellston	3e	—
Cn—Condit silt loam, 0 to 1 percent slopes				
	90	Condit	3w	—
CoB—Corwin silt loam, 2 to 6 percent slopes				
	80	Corwin	2e	—
CrA—Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	90	Crosby	2w	—
CsA—Canal silt loam, 0 to 2 percent slopes				
	90	Canal	2w	—
Ee—Eel silt loam, gravelly substratum, occasionally flooded				
	85	Eel	2w	—

Land Capability Classification--Fairfield County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EkA—Eldean silt loam, 0 to 2 percent slopes				
	80	Eldean	2s	—
EkB—Eldean silt loam, 2 to 6 percent slopes				
	80	Eldean	2e	—
EnC2—Eldean gravelly loam, 6 to 12 percent slopes, eroded				
	85	Eldean	3e	—
Eu—Euclid silt loam, rarely flooded				
	85	Euclid	2w	—
FbA—Fitchville silt loam, 0 to 2 percent slopes				
	85	Fitchville	2w	—
FhA—Fox loam, 0 to 2 percent slopes				
	80	Fox	2s	—
FhB—Fox loam, 2 to 6 percent slopes				
	80	Fox	2e	—
FhC2—Fox loam, 6 to 12 percent slopes, eroded				
	80	Fox	3e	—
FhD2—Fox loam, 12 to 20 percent slopes, eroded				
	80	Fox	4e	—
FmA—Fox silt loam, 0 to 2 percent slopes				
	80	Fox	2s	—
FmB—Fox silt loam, 2 to 6 percent slopes				
	85	Fox	2e	—
GaB—Gallman silt loam, loamy substratum, 2 to 6 percent slopes				
	85	Gallman	2e	—
GcD—Germano sandy loam, 15 to 25 percent slopes				
	80	Germano	4e	—
GcE—Germano sandy loam, 25 to 40 percent slopes				
	80	Germano	6e	—
GdF—Germano-Rock outcrop complex, 40 to 70 percent slopes				
	70	Germano	7e	—
	15	Rock outcrop	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Gf—Gessie silt loam, occasionally flooded				
	80	Gessie	2w	—
Gg—Gessie silt loam, frequently flooded				
	80	Gessie	2w	—
GkC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GkD—Gilpin silt loam, 15 to 25 percent slopes				
	85	Gilpin	4e	—
GnB—Glenford silt loam, 3 to 8 percent slopes				
	85	Glenford	2e	—
GnC2—Glenford silt loam, 6 to 15 percent slopes, eroded				
	90	Glenford	3e	—
HhC2—Hickory silt loam, 6 to 12 percent slopes, eroded				
	80	Hickory	3e	—
HkE—Hickory-Germano complex, 20 to 35 percent slopes				
	45	Hickory	6e	—
	35	Germano	6e	—
HmD2—Hickory-Gilpin complex, 12 to 20 percent slopes, eroded				
	50	Hickory	4e	—
	30	Gilpin	4e	—
HnC2—Homewood silt loam, 6 to 12 percent slopes, eroded				
	80	Homewood	3e	—
HoD2—Homewood-Gilpin complex, 12 to 20 percent slopes, eroded				
	50	Homewood	4e	—
	30	Gilpin	4e	—
HoE2—Homewood-Gilpin complex, 20 to 35 percent slopes, eroded				
	50	Homewood	6e	—
	30	Gilpin	6e	—
JeB—Jeneva silt loam, 2 to 6 percent slopes				
	85	Jeneva	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Km--Kokomo silt loam, overwash				
	80	Kokomo	2w	—
Ko--Kokomo silty clay loam, 0 to 2 percent slopes				
	90	Kokomo	2w	—
Lk--Lindside silt loam, occasionally flooded				
	75	Lindside	2w	—
LtC2--Loudonville-Steinsburg complex, 6 to 12 percent slopes, eroded				
	50	Loudonville	3e	—
	40	Steinsburg	3e	—
LtD2--Loudonville-Steinsburg complex, 12 to 20 percent slopes, eroded				
	50	Loudonville	4e	—
	40	Steinsburg	4e	—
LtE--Loudonville-Steinsburg complex, 20 to 35 percent slopes				
	40	Loudonville	6e	—
	30	Steinsburg	7e	—
LtF--Loudonville-Steinsburg complex, 35 to 70 percent slopes				
	60	Loudonville	7e	—
	20	Steinsburg	7e	—
Ma--Marengo clay loam				
	80	Marengo	2w	—
Mb--Marengo silt loam, overwash				
	80	Marengo	2w	—
McB--McGary silt loam, 2 to 6 percent slopes				
	80	Mcgary	3e	—
Me--Medway silt loam, occasionally flooded				
	75	Medway	2w	—
MkB2--Miamian silt loam, 2 to 6 percent slopes, eroded				
	85	Miamian, eroded	2e	—
MkC2--Miamian silt loam, 6 to 12 percent slopes, eroded				
	85	Miamian	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MmC3--Miamiian-Thrifton complex, 6 to 12 percent slopes, severely eroded				
	65	Miamiian	4e	—
	25	Thrifton	4e	—
MmD3--Miamiian-Thrifton complex, 12 to 20 percent slopes, severely eroded				
	50	Miamiian	6e	—
	40	Thrifton	6e	—
Mns3A--Minster silty clay loam, 0 to 1 percent slopes				
	90	Minster	3w	—
Mr--Muskego muck				
	90	Muskego	4w	—
NaD2--Negley loam, 12 to 20 percent slopes, eroded				
	90	Negley	4e	—
NaE--Negley loam, 20 to 35 percent slopes				
	90	Negley	6e	—
Ne--Newark silt loam, occasionally flooded				
	80	Newark	2w	—
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	—
Pa--Patton silty clay loam				
	80	Patton	2w	—
Pb--Patton silty clay loam, rarely flooded				
	80	Patton	2w	—
Pe--Pewamo silty clay loam				
	80	Pewamo	2w	—
Ph--Pits, quarry				
	100	Pits	—	—
PkB--Pike silt loam, 2 to 6 percent slopes				
	90	Pike	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
PkC2—Pike silt loam, 6 to 12 percent slopes, eroded				
	90	Pike	3e	—
Ro—Rockmill silty clay loam				
	85	Rockmill	3w	—
Rp—Rockmill silty clay loam, occasionally flooded				
	85	Rockmill	3w	—
Rt—Rossburg silt loam, occasionally flooded				
	85	Rossburg	2w	—
Sc—Sebring silt loam, rarely flooded				
	85	Sebring	3w	—
SdD—Shelocta silt loam, 15 to 25 percent slopes				
	80	Shelocta	4e	—
SeE—Shelocta-Berks complex, 25 to 40 percent slopes				
	50	Shelocta	6e	—
	40	Berks	6e	—
SfD—Shelocta-Cruze complex, 15 to 25 percent slopes				
	45	Shelocta	4e	—
	40	Cruze	4e	—
SfE—Shelocta-Cruze complex, 25 to 40 percent slopes				
	45	Shelocta	6e	—
	40	Cruze	6e	—
Sh—Shoals silt loam, occasionally flooded				
	80	Shoals	2w	—
SkA—Sleeth silt loam, 0 to 2 percent slopes				
	85	Sleeth	2w	—
St—Stonelick sandy loam, occasionally flooded				
	80	Stonelick	2w	—
TaC2—Tarlton silt loam, 6 to 12 percent slopes, eroded				
	85	Tarlton	3e	—
ThA—Thackery silt loam, 0 to 2 percent slopes				
	80	Thackery	1	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
ThB—Thackery silt loam, 2 to 6 percent slopes				
	80	Thackery	2e	—
Ud—Udorthents, loamy				
	100	Udorthents	—	—
Uf—Udorthents, loamy, organic substratum				
	100	Udorthents	—	—
Ug—Udorthents, sandy				
	100	Udorthents	—	—
Um—Urban land-Aetna complex, rarely flooded				
	60	Urban land	—	—
	30	Aetna	—	—
UoC—Urban land-Amada complex, 2 to 12 percent slopes				
	45	Urban land	—	—
	35	Amada	—	—
UrB—Urban land-Bennington complex, 0 to 6 percent slopes				
	45	Urban land	—	—
	35	Bennington	—	—
UtC—Urban land-Cardington complex, 2 to 12 percent slopes				
	45	Urban land	—	—
	35	Cardington	—	—
UuB—Urban land-Celina complex, 0 to 6 percent slopes				
	45	Urban land	—	—
	35	Celina	—	—
UxB—Urban land-Ockley complex, 0 to 6 percent slopes				
	45	Urban land	—	—
	35	Ockley	—	—
Uy—Urban land-Udorthents complex				
	60	Urban land	—	—
	40	Udorthents	—	—
W—Water				
	100	Water	—	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WdA--Wea silt loam, 0 to 2 percent slopes				
	90	Wea	1	—
WeC--Wellston silt loam, 8 to 15 percent slopes				
	85	Wellston	3e	—
WfC--Wellston-Cruze complex, 8 to 15 percent slopes				
	50	Wellston	3e	—
	30	Cruze	3e	—
Wg--Westland silt loam, overwash				
	85	Westland	2w	—
Wk--Westland silty clay loam				
	90	Westland	2w	—
ZnB--Zanesville silt loam, 2 to 6 percent slopes				
	80	Zanesville	2e	—
ZnC2--Zanesville silt loam, 6 to 15 percent slopes, eroded				
	80	Zanesville	3e	—

Data Source Information

Soil Survey Area: Fairfield County, Ohio
 Survey Area Data: Version 14, Sep 18, 2014