

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—Licking County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AaB—Aaron silt loam, 2 to 8 percent slopes				
	80	Aaron	2e	—
AaC2—Aaron silt loam, 8 to 15 percent slopes, eroded				
	80	Aaron	3e	—
Ab—Abandoned Canal				
	100	Abandoned canal	—	—
AcB—Alford silt loam, 2 to 8 percent slopes				
	85	Alford	2e	—
AcC2—Alford silt loam, 8 to 15 percent slopes, eroded				
	80	Alford	3e	—
AfA—Alford silt loam, 0 to 2 percent slopes				
	100	Alford	1	—
AfB—Alford silt loam, 2 to 6 percent slopes				
	100	Alford	2e	—
AfC2—Alford silt loam, 6 to 12 percent slopes, eroded				
	100	Alford	3e	—
AhB—Alford-Urban land complex, 2 to 6 percent slopes				
	45	Alford	—	—
	35	Urban land	—	—
Ak—Algiers silt loam, frequently flooded				
	85	Algiers	2w	—
AmB2—Amanda silt loam, 2 to 6 percent slopes, eroded				
	100	Amanda	2e	—
AmC2—Amanda silt loam, 6 to 12 percent slopes, eroded				
	100	Amanda	3e	—

Land Capability Classification--Licking County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AmD2—Amanda silt loam, 12 to 18 percent slopes, eroded				
	100	Amanda	4e	—
AmE—Amanda silt loam, 18 to 25 percent slopes				
	100	Amanda	6e	—
AmF—Amanda silt loam, 25 to 50 percent slopes				
	100	Amanda	7e	—
AvC2—Amanda variant silt loam, 6 to 12 percent slopes, eroded				
	100	Amanda variant	3e	—
AvD2—Amanda variant silt loam, 12 to 18 percent slopes, eroded				
	100	Amanda variant	4e	—
BeA—Bennington silt loam, 0 to 2 percent slopes				
	90	Bennington	2w	—
BeB—Bennington silt loam, 2 to 6 percent slopes				
	90	Bennington	2e	—
BfA—Bennington-Urban land complex, 0 to 3 percent slopes				
	45	Bennington	—	—
	35	Urban land	—	—
BgB—Berks channery silt loam, 2 to 6 percent slopes				
	100	Berks	2e	—
BgD—Berks channery silt loam, 15 to 25 percent slopes				
	85	Berks	4e	—
BhF—Berks-Westmoreland complex, 40 to 70 percent slopes				
	40	Berks	7e	—
	35	Westmoreland	7e	—
BoD—Brownsville channery silt loam, 15 to 25 percent slopes				
	85	Brownsville	4e	—

Land Capability Classification--Licking County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BrC—Brownsville channery silt loam, 6 to 12 percent slopes				
	100	Brownsville	3e	—
BrD—Brownsville channery silt loam, 12 to 18 percent slopes				
	100	Brownsville	4e	—
BrE—Brownsville channery silt loam, 18 to 25 percent slopes				
	100	Brownsville	4e	—
BrF—Brownsville channery silt loam, 25 to 35 percent slopes				
	100	Brownsville	6e	—
BrG—Brownsville channery silt loam, 35 to 70 percent slopes				
	100	Brownsville	7e	—
Ca—Carlisle muck				
	100	Carlisle	3w	—
CbC—Clarksburg silt loam, 6 to 15 percent slopes				
	85	Clarksburg	3e	—
CeB—Centerburg silt loam, 2 to 6 percent slopes				
	90	Centerburg	2e	—
CeC2—Centerburg silt loam, 6 to 12 percent slopes, eroded				
	95	Centerburg	3e	—
CfB—Centerburg-Urban land complex, 2 to 6 percent slopes				
	45	Centerburg	—	—
	35	Urban land	—	—
CfC—Centerburg-Urban land complex, 6 to 12 percent slopes				
	45	Centerburg	—	—
	35	Urban land	—	—
ChA—Chili loam, 0 to 2 percent slopes				
	100	Chili	2s	—
ChB—Chili loam, 2 to 6 percent slopes				
	100	Chili	2e	—

Land Capability Classification--Licking County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
ChC2—Chili loam, 6 to 12 percent slopes, eroded				
	100	Chili	3e	—
ChD2—Chili loam, 12 to 18 percent slopes, eroded				
	100	Chili	4e	—
ChE2—Chili loam, 18 to 25 percent slopes, eroded				
	100	Chili	6e	—
CjC2—Cincinnati silt loam, 6 to 15 percent slopes, eroded				
	80	Cincinnati	3e	—
CkB—Cincinnati silt loam, 2 to 6 percent slopes				
	100	Cincinnati	2e	—
CkC2—Cincinnati silt loam, 6 to 12 percent slopes, eroded				
	100	Cincinnati	3e	—
CmC2—Clarksburg silt loam, 6 to 12 percent slopes, eroded				
	100	Clarksburg	3e	—
CmD2—Clarksburg silt loam, 12 to 18 percent slopes, eroded				
	100	Clarksburg	4e	—
Cn—Condit silt loam, 0 to 1 percent slopes				
	90	Condit	3w	—
CoB—Coshocton silt loam, 2 to 6 percent slopes				
	100	Coshocton	2e	—
CoC2—Coshocton silt loam, 6 to 12 percent slopes, eroded				
	100	Coshocton	3e	—
CoD2—Coshocton silt loam, 12 to 18 percent slopes, eroded				
	100	Coshocton	4e	—
CoE2—Coshocton silt loam, 18 to 25 percent slopes, eroded				
	100	Coshocton	4e	—
CpC2—Clarksburg silt loam, 8 to 15 percent slopes, eroded				
	85	Clarksburg	3e	—

Land Capability Classification--Licking County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CrA—Crane silt loam, 0 to 2 percent slopes				
	90	Crane	2w	—
CsC2—Coshocton silt loam, 8 to 15 percent slopes, eroded				
	80	Coshocton	3e	—
CsD—Coshocton silt loam, 15 to 25 percent slopes				
	75	Coshocton	4e	—
CtC2—Coshocton silt loam, 6 to 15 percent slopes, eroded				
	85	Coshocton	3e	—
FaD—Fairpoint silty clay loam, 8 to 25 percent slopes				
	100	Fairpoint	4s	—
FcA—Fitchville silt loam, 0 to 2 percent slopes				
	90	Fitchville	2w	—
FcB—Fitchville silt loam, 2 to 6 percent slopes				
	95	Fitchville	2e	—
FdB—Fairpoint silty clay loam, 1 to 15 percent slopes				
	80	Fairpoint	3s	—
FdD—Fairpoint silty clay loam, 15 to 25 percent slopes				
	80	Fairpoint	4s	—
FoD2—Fox gravelly loam, 12 to 18 percent slopes, eroded				
	100	Fox	4e	—
FoE2—Fox gravelly loam, 18 to 25 percent slopes, eroded				
	100	Fox	6e	—
FrB—Frankstown variant-Mertz complex, 2 to 6 percent slopes, very stony				
	45	Frankstown variant	6s	—
	35	Mertz	6s	—
GfA—Glenford silt loam, 0 to 2 percent slopes				
	95	Glenford	1	—
GfB—Glenford silt loam, 2 to 6 percent slopes				
	90	Glenford	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GhB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GnB—Guernsey silt loam, 2 to 6 percent slopes				
	100	Guernsey	2e	—
GnC2—Guernsey silt loam, 6 to 12 percent slopes, eroded				
	100	Guernsey	3e	—
GnD—Guernsey silt loam, 12 to 18 percent slopes				
	100	Guernsey	4e	—
HeF—Hazleton-Rock outcrop complex, 25 to 70 percent slopes				
	55	Hazleton	7e	—
	25	Rock outcrop	—	—
HfD2—Homewood silt loam, 15 to 20 percent slopes, eroded				
	80	Homewood	4e	—
HkC2—Hickory silt loam, 6 to 12 percent slopes, eroded				
	100	Hickory	3e	—
HkD2—Hickory silt loam, 12 to 18 percent slopes, eroded				
	100	Hickory	4e	—
HoB—Homewood silt loam, 2 to 6 percent slopes				
	100	Homewood	2e	—
HoC2—Homewood silt loam, 6 to 12 percent slopes, eroded				
	100	Homewood	3e	—
HoD2—Homewood silt loam, 12 to 18 percent slopes, eroded				
	100	Homewood	4e	—
HoE2—Homewood silt loam, 18 to 25 percent slopes, eroded				
	100	Homewood	6e	—
KeB—Keene silt loam, 3 to 8 percent slopes				
	90	Keene	2e	—
KeC2—Keene silt loam, 6 to 12 percent slopes, eroded				
	100	Keene	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
KeD2--Keene silt loam, 12 to 18 percent slopes, eroded				
	100	Keene	4e	—
KfC2--Keene silt loam, 6 to 15 percent slopes, eroded				
	80	Keene	3e	—
Kk--Killbuck silt loam, frequently flooded				
	100	Killbuck	3w	—
Lu--Luray silty clay loam				
	100	Luray	2w	—
McB--Mechanicsburg silt loam, 2 to 6 percent slopes				
	100	Mechanicsburg	2e	—
McC2--Mechanicsburg silt loam, 6 to 12 percent slopes, eroded				
	100	Mechanicsburg	3e	—
McD2--Mechanicsburg silt loam, 12 to 18 percent slopes, eroded				
	100	Mechanicsburg	4e	—
McE--Mechanicsburg silt loam, 18 to 25 percent slopes				
	100	Mechanicsburg	6e	—
Md--Medway silt loam, occasionally flooded				
	95	Medway	2w	—
Me--Melvin silt loam, frequently flooded				
	100	Melvin	3w	—
MnA--Mentor silt loam, 0 to 2 percent slopes				
	100	Mentor	1	—
MnB--Mentor silt loam, 2 to 6 percent slopes				
	95	Mentor	2e	—
MnC2--Mentor silt loam, 6 to 12 percent slopes, eroded				
	100	Mentor	3e	—
MnD2--Mentor silt loam, 12 to 18 percent slopes, eroded				
	100	Mentor	4e	—
MpD--Mertz very cherty silt loam, 15 to 35 percent slopes				
	70	Mertz	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MrE—Mertz very cherty silt loam, 18 to 35 percent slopes, very stony				
	100	Mertz	7e	—
NeC2—Negley loam, 6 to 12 percent slopes, eroded				
	100	Negley	3e	—
NeD2—Negley loam, 12 to 18 percent slopes, eroded				
	100	Negley	4e	—
NeE—Negley loam, 18 to 25 percent slopes				
	100	Negley	6e	—
NeF—Negley loam, 25 to 70 percent slopes				
	100	Negley	7e	—
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	—
OcC2—Ockley silt loam, 6 to 12 percent slopes, eroded				
	100	Ockley	3e	—
OeA—Ockley-Urban land complex, 0 to 3 percent slopes				
	45	Ockley	—	—
	35	Urban land	—	—
OeC—Ockley-Urban land complex, 6 to 12 percent slopes				
	45	Ockley	—	—
	35	Urban land	—	—
Or—Orrville silt loam, occasionally flooded				
	90	Orrville	2w	—
PaC2—Parke silt loam, 6 to 12 percent slopes, eroded				
	100	Parke	3e	—
Pe—Pewamo silty clay loam				
	100	Pewamo	2w	—

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			Nonirrigated	Irrigated
Pf—Pewamo-Urban land complex				
	50	Pewamo	—	—
	30	Urban land	—	—
Pg—Pits, gravel				
	100	Pits	—	—
RdD—Rigley channery loam, 15 to 25 percent slopes				
	80	Rigley	4e	—
ReD—Rigley sandy loam, 15 to 25 percent slopes				
	85	Rigley	4e	—
RfC—Rigley loam, 8 to 15 percent slopes				
	80	Rigley	3e	—
RgC—Rigley fine sandy loam, 6 to 12 percent slopes				
	100	Rigley	3e	—
RgD—Rigley fine sandy loam, 12 to 18 percent slopes				
	100	Rigley	4e	—
RgE—Rigley fine sandy loam, 18 to 25 percent slopes				
	100	Rigley	6e	—
RgF—Rigley fine sandy loam, 25 to 35 percent slopes				
	100	Rigley	7e	—
RhE—Rigley-Coshocton complex, 18 to 25 percent slopes				
	45	Rigley	6e	—
	40	Coshocton	6e	—
RhF—Rigley-Coshocton complex, 25 to 40 percent slopes				
	40	Rigley	7e	—
	35	Coshocton	6e	—
RsA—Rush silt loam, 0 to 2 percent slopes				
	100	Rush	1	—
Se—Sebring silt loam				
	100	Sebring	3w	—

Land Capability Classification--Licking County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Sh—Shoals silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Shoals	2w	—
SkA—Sleeth silt loam, 0 to 2 percent slopes				
	95	Sleeth	2w	—
So—Sloan silt loam, frequently flooded				
	100	Sloan	3w	—
St—Stonelick loam, occasionally flooded				
	100	Stonelick	2w	—
Su—Stonelick-Urban land complex, occasionally flooded				
	40	Stonelick	—	—
	35	Urban land	—	—
Tg—Tioga fine sandy loam, occasionally flooded				
	100	Tioga	2w	—
TsB—Titusville silt loam, 2 to 6 percent slopes				
	90	Titusville	2e	—
TsC2—Titusville silt loam, 6 to 12 percent slopes, eroded				
	95	Titusville	3e	—
Uf—Udorthents, loamy				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
Wa—Walkkill silt loam, clayey substratum, frequently flooded				
	100	Walkkill	3w	—
Ws—Westland silty clay loam				
	100	Westland	2w	—
Wt—Westland-Urban land complex				
	50	Westland	—	—
	30	Urban land	—	—

Data Source Information

Soil Survey Area: Licking County, Ohio
 Survey Area Data: Version 11, Sep 19, 2014