

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—Franklin County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AdB—Alexandria silt loam, 2 to 6 percent slopes				
	90	Alexandria	2e	—
AdC2—Alexandria silt loam, 6 to 12 percent slopes, eroded				
	85	Alexandria	3e	—
AdD2—Alexandria silt loam, 12 to 18 percent slopes, eroded				
	85	Alexandria	4e	—
AdE2—Alexandria silt loam, 18 to 25 percent slopes, eroded				
	85	Alexandria	6e	—
Ag—Algiers silt loam				
	85	Algiers	2w	—
BeA—Bennington silt loam, 0 to 2 percent slopes				
	85	Bennington	2w	—
BeB—Bennington silt loam, 2 to 6 percent slopes				
	80	Bennington	2e	—
BfA—Bennington-Urban land complex, 0 to 2 percent slopes				
	45	Bennington	—	—
	35	Urban land	—	—
BfB—Bennington-Urban land complex, 2 to 6 percent slopes				
	45	Bennington	—	—
	30	Urban land	—	—
Ble1A1—Blount silt loam, end moraine, 0 to 2 percent slopes				
	85	Blount, end moraine	2w	—
Ble1B1—Blount silt loam, end moraine, 2 to 4 percent slopes				
	85	Blount, end moraine	2e	—

Land Capability Classification--Franklin County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
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				
	85	Cardington	3e	—
CbB—Cardington-Urban land complex, 2 to 6 percent slopes				
	45	Cardington	—	—
	30	Urban land	—	—
CbC—Cardington-Urban land complex, 6 to 12 percent slopes				
	45	Cardington	—	—
	30	Urban land	—	—
Cc—Carlisle muck				
	90	Carlisle	5w	—
CeA—Celina silt loam, 0 to 2 percent slopes				
	85	Celina	1	—
CeB—Celina silt loam, 2 to 6 percent slopes				
	85	Celina	2e	—
CeB2—Celina silt loam, 2 to 6 percent slopes, eroded				
	85	Celina	2e	—
CeC2—Celina silt loam, 6 to 12 percent slopes, eroded				
	80	Celina	3e	—
CfB—Celina-Urban land complex, 2 to 6 percent slopes				
	45	Celina	—	—
	30	Urban land	—	—
Cn—Condit silt loam, 0 to 1 percent slopes				
	90	Condit	3w	—
CpA—Crane silt loam, 0 to 2 percent slopes				
	90	Crane	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CrA—Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	90	Crosby	2w	—
CrB—Crosby silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes				
	90	Crosby	2e	—
CsA—Crosby-Urban land complex, 0 to 2 percent slopes				
	45	Crosby	—	—
	30	Urban land	—	—
CsB—Crosby-Urban land complex, 2 to 6 percent slopes				
	45	Crosby	—	—
	30	Urban land	—	—
DAM—Dam				
	100	Dam	—	—
Ee—Eel silt loam, occasionally flooded				
	85	Eel	2w	—
EIA—Eldean silt loam, 0 to 2 percent slopes				
	80	Eldean	2s	—
EIB—Eldean silt loam, 2 to 6 percent slopes				
	85	Eldean	2e	—
EIC2—Eldean silt loam, 6 to 12 percent slopes, eroded				
	85	Eldean	3e	—
EID2—Eldean silt loam, 12 to 18 percent slopes, eroded				
	85	Eldean	4e	—
EmA—Eldean-Urban land complex, 0 to 2 percent slopes				
	45	Eldean	—	—
	30	Urban land	—	—
EmB—Eldean-Urban land complex, 2 to 6 percent slopes				
	45	Eldean	—	—
	30	Urban land	—	—
Gn—Genesee silt loam, occasionally flooded				
	85	Genesee	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Gwd5C2—Glynwood clay loam, 6 to 12 percent slopes, eroded				
	85	Glynwood	4e	—
Gwe5B2—Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded				
	85	Glynwood, end moraine	2e	—
HeE2—Hennepin and Miamian loams, 18 to 25 percent slopes, eroded				
	45	Hennepin	6e	—
	40	Miamian	6e	—
HeF2—Hennepin and Miamian loams, 25 to 50 percent slopes, eroded				
	45	Hennepin	7e	—
	40	Miamian	7e	—
KeA—Kendallville silt loam, 0 to 2 percent slopes				
	85	Kendallville	1	—
KeB—Kendallville silt loam, 2 to 6 percent slopes				
	85	Kendallville	2e	—
KeC2—Kendallville silt loam, 6 to 12 percent slopes, eroded				
	90	Kendallville	3e	—
Ko—Kokomo silty clay loam, 0 to 2 percent slopes				
	90	Kokomo	2w	—
Ku—Kokomo-Urban land complex				
	50	Kokomo	—	—
	30	Urban land	—	—
LbF—Latham-Brecksville complex, 25 to 70 percent slopes				
	40	Latham	7e	—
	35	Brecksville	7e	—
LeB—Lewisburg-Crosby complex, 2 to 6 percent slopes				
	45	Lewisburg	2e	—
	40	Crosby	2e	—
Mh—Medway silt loam, occasionally flooded				
	85	Medway	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MkB—Miamiian silt loam, 2 to 6 percent slopes				
	85	Miamian	2e	—
MIB2—Miamiian silty clay loam, 2 to 6 percent slopes, eroded				
	85	Miamian	2e	—
MIC2—Miamiian silty clay loam, 6 to 12 percent slopes, eroded				
	90	Miamian	3e	—
MID2—Miamiian silty clay loam, 12 to 18 percent slopes, eroded				
	100	Miamian	4e	—
MmC3—Miamiian clay loam, shallow to dense till substratum, 6 to 12 percent slopes, severely eroded				
	90	Miamian, severely eroded	4e	—
MnC—Miamiian-Urban land complex, 6 to 12 percent slopes				
	45	Miamian	—	—
	30	Urban land	—	—
Mnl3A—Minster silty clay loam, till substratum, 0 to 1 percent slopes				
	85	Minster, till substratum	3w	—
MoB—Milton silt loam, 2 to 6 percent slopes				
	85	Milton	2e	—
MoC2—Milton silt loam, 6 to 12 percent slopes, eroded				
	85	Milton	3e	—
MpB—Milton-Urban land complex, 2 to 6 percent slopes				
	45	Milton	—	—
	30	Urban land	—	—
MpC—Milton-Urban land complex, 6 to 12 percent slopes				
	45	Milton	—	—
	30	Urban land	—	—
MrB—Mitiwanga silt loam, 2 to 6 percent slopes				
	85	Mitiwanga	2e	—
OcA—Ockley silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Ockley	1	—

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			Nonirrigated	Irrigated
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				
	90	Ockley	3e	—
Pm—Pewamo silty clay loam				
	85	Pewamo	2w	—
Pn—Pewamo-Urban land complex				
	50	Pewamo	—	—
	30	Urban land	—	—
Pt—Pits, quarry				
	95	Pits	—	—
RdF2—Rarden silt loam, 20 to 50 percent slopes, eroded				
	100	Rarden	7e	—
RhB—Ritchey silt loam, 2 to 6 percent slopes				
	85	Ritchey	3e	—
RhD2—Ritchey silt loam, 12 to 18 percent slopes, eroded				
	85	Ritchey	6e	—
Rs—Ross silt loam, occasionally flooded				
	85	Ross	2w	—
Sh—Shoals silt loam, occasionally flooded				
	85	Shoals	2w	—
SIA—Sleeth silt loam, 0 to 2 percent slopes				
	90	Sleeth	2w	—
SmA—Sleeth-Urban land complex, 0 to 2 percent slopes				
	45	Sleeth	—	—
	30	Urban land	—	—
So—Sloan silt loam, frequently flooded				
	85	Sloan	3w	—
ThA—Thackery silt loam, 0 to 2 percent slopes				
	90	Thackery	1	—
ThB—Thackery silt loam, 2 to 6 percent slopes				
	90	Thackery	2e	—

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			Nonirrigated	Irrigated
Up—Udorthents, loamy, rolling				
	90	Udorthents	—	—
Ur—Udorthents, loamy, sloping				
	80	Udorthents	—	—
Us—Udorthents, loamy, steep				
	90	Udorthents	—	—
Ut—Udorthents-Urban land complex, gently rolling				
	50	Udorthents	—	—
	40	Urban land	—	—
Uu—Urban land-Bennington complex, 2 to 6 percent slopes				
	65	Urban land	—	—
	15	Bennington	—	—
Uv—Urban land-Celina complex, 2 to 12 percent slopes				
	65	Urban land	—	—
	15	Celina	—	—
Uw—Urban land-Genesee complex, occasionally flooded				
	65	Urban land	—	—
	15	Genesee	—	—
Ux—Urban land-Ockley complex, 0 to 6 percent slopes				
	65	Urban land	—	—
	15	Ockley	—	—
W—Water				
	100	Water	—	—
WdA—Warsaw silt loam, 0 to 2 percent slopes				
	85	Warsaw	2s	—
WdB—Warsaw silt loam, 2 to 6 percent slopes				
	85	Warsaw	2e	—
WeA—Wea silt loam, 0 to 2 percent slopes				
	85	Wea	1	—
WeB—Wea silt loam, 2 to 6 percent slopes				
	85	Wea	2e	—

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			Nonirrigated	Irrigated
Wt--Westland silty clay loam				
	85	Westland	2w	—

Data Source Information

Soil Survey Area: Franklin County, Ohio
 Survey Area Data: Version 12, Sep 18, 2014