

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—Lawrence County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BcF—Berks-Upshur association, very steep				
	45	Berks	7e	—
	30	Upshur	7e	—
BdD—Bethesda channery silty clay loam, 8 to 25 percent slopes				
	85	Bethesda	6s	—
BdF—Bethesda channery silty clay loam, 25 to 70 percent slopes				
	85	Bethesda	7e	—
BhF—Bethesda channery clay loam, 40 to 70 percent slopes				
	80	Bethesda	7e	—
Cg—Chagrin loam, 0 to 3 percent slopes, frequently flooded				
	85	Chagrin, frequently flooded	2w	—
Chg1AF—Chagrin silt loam, 0 to 3 percent slopes, frequently flooded				
	95	Chagrin	2w	—
CtB—Coolville-Tilsit silt loams, 2 to 6 percent slopes				
	60	Coolville	2e	—
	25	Tilsit	2e	—
Cu—Cuba silt loam, occasionally flooded				
	85	Cuba	2w	—
Cub1AO—Cuba silt loam, 0 to 3 percent slopes, occasionally flooded				
	90	Cuba	2w	—
Dp—Dumps				
	100	Dumps	—	—
EkB—Elkinsville silt loam, 1 to 6 percent slopes				
	85	Elkinsville	2e	—

Land Capability Classification—Lawrence County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EkE—Elkinsville silt loam, 15 to 40 percent slopes				
	90	Elkinsville	6e	—
EmB—Elkinsville-Urban land complex, 1 to 8 percent slopes				
	40	Urban land	—	—
	40	Elkinsville	—	—
FaD—Fairpoint channery silty clay loam, 8 to 25 percent slopes				
	85	Fairpoint	6s	—
GIL1D1—Gilpin-Latham silt loams, 15 to 25 percent slopes				
	50	Gilpin	4e	—
	35	Latham	6e	—
GUSZE1—Gilpin-Upshur-Steinsburg association, steep				
	35	Gilpin	7e	—
	25	Upshur	7e	—
	20	Steinsburg	7e	—
KaB—Kanawha silt loam, 2 to 6 percent slopes				
	90	Kanawha	2e	—
KaC—Kanawha silt loam, 6 to 12 percent slopes				
	90	Kanawha	3e	—
Kg—Kyger loamy sand, frequently flooded				
	90	Kyger	6w	—
LaD—Lakin loamy fine sand, 8 to 25 percent slopes				
	80	Lakin	6s	—
LaG1D1—Latham-Gilpin silt loams, 15 to 25 percent slopes				
	50	Latham	6e	—
	35	Gilpin	4e	—
LaSXD1—Latham-Steinsburg complex, 15 to 25 percent slopes				
	45	Latham	6e	—
	40	Steinsburg	4e	—
Lic1B1—Licking silt loam, 2 to 6 percent slopes				
	85	Licking	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Lic1C2—Licking silt loam, 6 to 12 percent slopes, eroded				
	85	Licking	4e	—
LtC—Lily loam, 8 to 15 percent slopes				
	90	Lily	3e	—
LtD—Lily loam, 15 to 25 percent slopes				
	90	Lily	4e	—
McA—McGary silt loam, 0 to 2 percent slopes				
	85	Mcgary	3w	—
Me—Melvin silt loam, ponded				
	100	Melvin	5w	—
MrB—Morristown channery silty clay loam, 0 to 8 percent slopes				
	90	Morristown	6s	—
MrD—Morristown channery silty clay loam, 8 to 25 percent slopes				
	85	Morristown	6s	—
MrF—Morristown channery silty clay loam, 25 to 70 percent slopes				
	85	Morristown	7e	—
No—Nolin silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Nolin, occasionally flooded	2w	—
OmC2—Omulga silt loam, 6 to 15 percent slopes, eroded				
	85	Omulga	3e	—
Omu1C1—Omulga silt loam, 6 to 12 percent slopes				
	85	Omulga	3e	—
Orr1AF—Orrville silt loam, 0 to 3 percent slopes, frequently flooded				
	85	Orrville	2w	—
Pe—Peoga silt loam, rarely flooded				
	85	Peoga	3w	—
PgD—Pinegrove loamy coarse sand, 8 to 25 percent slopes				
	85	Pinegrove	7s	—

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			Nonirrigated	Irrigated
PgF—Pinegrove loamy coarse sand, 25 to 70 percent slopes				
	85	Pinegrove	7e	—
Pio1AF—Piopolis silt loam, 0 to 2 percent slopes, frequently flooded				
	85	Piopolis	3w	—
Pio1AP—Piopolis silt loam, 0 to 2 percent slopes, ponded				
	85	Piopolis	5w	—
PkD—Pinegrove silty clay loam, 8 to 25 percent slopes				
	85	Pinegrove	6s	—
Pop1AF—Pope silt loam, 0 to 3 percent slopes, frequently flooded				
	85	Pope	2w	—
PpS1AF—Pope-Stokly silt loams, 0 to 3 percent slopes, frequently flooded				
	45	Pope	2w	—
	40	Stokly	2w	—
Ps—Pits, sand and gravel				
	100	Pits	—	—
Px—Pope silt loam, frequently flooded				
	85	Pope	2w	—
RgLXD1—Rigley-Latham complex, 15 to 25 percent slopes				
	45	Rigley	4e	—
	40	Latham	6e	—
RgLZE1—Rigley-Latham association, steep				
	45	Rigley	7e	—
	30	Latham	6e	—
RrG1C1—Rarden-Gilpin silt loams, 8 to 15 percent slopes				
	50	Rarden	4e	—
	40	Gilpin	3e	—
RrG1D1—Rarden-Gilpin silt loams, 15 to 25 percent slopes				
	50	Rarden	6e	—
	40	Gilpin	4e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RrLXD1—Rarden-Lily complex, 15 to 25 percent slopes				
	50	Rarden	6e	—
	30	Lily	6e	—
SaB—Sciotoville silt loam, 1 to 6 percent slopes				
	85	Sciotoville	2e	—
SbB—Shelocta silt loam, 2 to 6 percent slopes				
	90	Shelocta	2e	—
SbC—Shelocta silt loam, 6 to 15 percent slopes				
	90	Shelocta	3e	—
SbD—Shelocta silt loam, 15 to 25 percent slopes				
	85	Shelocta	4e	—
ScB—Sciotoville silt loam, 1 to 8 percent slopes				
	98	Sciotoville	2e	—
SfE—Steinsburg-Clymer association, steep				
	50	Steinsburg	7e	—
	30	Clymer	7e	—
SgB—Shelocta silt loam, 3 to 8 percent slopes				
	90	Shelocta	2e	—
SgC—Shelocta silt loam, 8 to 15 percent slopes				
	90	Shelocta	3e	—
ShLZE1—Shelocta-Latham association, steep				
	50	Shelocta	7e	—
	25	Latham	6e	—
SkP1AF—Stokly-Philo silt loams, 0 to 3 percent slopes, frequently flooded				
	55	Stokly	2w	—
	30	Philo	2w	—
SsF—Steinsburg-Shelocta association, very steep				
	50	Steinsburg	7e	—
	35	Shelocta	7e	—
St—Stendal silt loam, occasionally flooded				
	85	Stendal	2w	—

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			Nonirrigated	Irrigated
Stn1AO—Stendal silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Stendal	2w	—
SWLZE1—Shelocta-Wharton-Latham association, steep				
	45	Shelocta	7e	—
	30	Wharton	6e	—
	15	Latham	6e	—
Tg—Tioga loam, occasionally flooded				
	90	Tioga	1	—
To—Tioga loam, frequently flooded				
	90	Tioga	2w	—
Ud—Udorthents				
	100	Udorthents	—	—
UgC—Upshur-Gilpin complex, 8 to 15 percent slopes				
	50	Upshur	4e	—
	25	Gilpin	3e	—
UgD—Upshur-Gilpin complex, 15 to 25 percent slopes				
	50	Upshur	6e	—
	25	Gilpin	4e	—
UgE—Upshur-Gilpin complex, 25 to 40 percent slopes				
	55	Upshur	7e	—
	25	Gilpin	6e	—
UgF—Upshur-Gilpin complex, 40 to 70 percent slopes				
	55	Upshur	7e	—
	25	Gilpin	7e	—
UtF—Upshur-Rock outcrop association, very steep				
	60	Upshur	7e	—
	20	Rock outcrop	—	—
VaD3—Vandalia silty clay loam, 15 to 25 percent slopes, severely eroded				
	80	Vandalia	6e	—
W—Water				
	100	Water	—	—

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			Nonirrigated	Irrigated
WaB—Watertown sandy loam, 1 to 8 percent slopes				
	90	Watertown	3s	—
WeA—Weinbach silt loam, 0 to 2 percent slopes				
	85	Weinbach	2w	—
WmB—Wheeling silt loam, 1 to 6 percent slopes				
	90	Wheeling	2e	—
WmC2—Wheeling silt loam, 6 to 15 percent slopes, eroded				
	85	Wheeling	3e	—
WoB—Woodsfield silt loam, 3 to 8 percent slopes				
	90	Woodsfield	2e	—

Data Source Information

Soil Survey Area: Lawrence County, Ohio
 Survey Area Data: Version 12, Sep 19, 2014