

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—Tuscarawas 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	85	Aaron	2e	—
AaC—Aaron silt loam, 8 to 15 percent slopes	85	Aaron	3e	—
AbB—Aaron silt loam, 2 to 6 percent slopes	85	Aaron	2e	—
AnC2—Aaron silty clay loam, 6 to 15 percent slopes, eroded	85	Aaron	3e	—
BeB—Berks silt loam, 3 to 8 percent slopes	85	Berks	2e	—
BfC—Berks channery silt loam, 8 to 15 percent slopes	85	Berks	3e	—
BfD—Berks channery silt loam, 15 to 25 percent slopes	85	Berks	4e	—
BfE—Berks channery silt loam, 25 to 40 percent slopes	80	Berks	6e	—
BfF—Berks channery silt loam, 40 to 70 percent slopes	80	Berks	7e	—
BkC—Berks shaly silt loam, 8 to 15 percent slopes	85	Berks	3e	—
BkD—Berks shaly silt loam, 15 to 25 percent slopes	90	Berks	4e	—
BkE—Berks channery silt loam, 25 to 35 percent slopes	85	Berks	6e	—

Land Capability Classification--Tuscarawas County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BkF—Berks channery silt loam, 35 to 70 percent slopes				
	85	Berks	7e	—
BmD—Bethesda loam, 8 to 25 percent slopes				
	90	Bethesda	4s	—
BnB—Bethesda channery clay loam, 0 to 8 percent slopes				
	90	Bethesda	6s	—
BnC—Bethesda channery clay loam, 8 to 15 percent slopes				
	95	Bethesda	6s	—
BnD—Bethesda channery clay loam, 15 to 25 percent slopes				
	90	Bethesda	6s	—
BnF—Bethesda channery clay loam, 25 to 70 percent slopes				
	85	Bethesda	7e	—
BpC—Bethesda very channery clay loam, 8 to 20 percent slopes				
	95	Bethesda	6s	—
BpF—Bethesda very channery clay loam, 20 to 70 percent slopes				
	90	Bethesda	7e	—
BrC—Berks channery silt loam, 6 to 15 percent slopes				
	85	Berks	3e	—
BsF—Bethesda channery silty clay loam, 25 to 70 percent slopes				
	85	Bethesda	7e	—
BtA—Bogart variant loam, 0 to 3 percent slopes				
	85	Bogart variant	1	—
BtB—Bogart variant loam, 3 to 8 percent slopes				
	85	Bogart variant	2e	—
Ca—Canadice silty clay loam				
	85	Canadice	4w	—
CbA—Caneadea silty clay loam, 0 to 2 percent slopes				
	85	Caneadea	3w	—

Land Capability Classification--Tuscarawas County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CcA—Caneadea silty clay loam, 0 to 3 percent slopes				
	85	Caneadea	3w	—
CdC—Canfield silt loam, 8 to 15 percent slopes				
	90	Canfield	3e	—
CeB—Canfield silt loam, 2 to 6 percent slopes				
	90	Canfield	2e	—
CeC—Canfield silt loam, 6 to 12 percent slopes				
	90	Canfield	3e	—
Cg—Chagrin silt loam, alkaline phase				
	100	Chagrin	2w	—
ChB—Coshocton silt loam, 2 to 6 percent slopes				
	85	Coshocton	2e	—
ChC—Coshocton silt loam, 6 to 15 percent slopes				
	85	Coshocton	3e	—
ChC2—Coshocton silt loam, 6 to 15 percent slopes, eroded				
	85	Coshocton	3e	—
CkB—Chili gravelly loam, 3 to 8 percent slopes				
	85	Chili	2e	—
CkC—Chili gravelly loam, 8 to 15 percent slopes				
	85	Chili	3e	—
CIA—Chili silt loam, 0 to 2 percent slopes				
	100	Chili	2s	—
CIB—Chili silt loam, 2 to 6 percent slopes				
	100	Chili	2e	—
CIC—Chili silt loam, 6 to 12 percent slopes				
	100	Chili	3e	—
CmA—Chili silt loam, 0 to 3 percent slopes				
	85	Chili	2s	—
CnB—Chili-Urban land complex, undulating				
	40	Chili	—	—
	40	Urban land	—	—

Land Capability Classification--Tuscarawas County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CoA—Conotton gravelly loam, 0 to 3 percent slopes				
	85	Conotton	3s	—
CoB—Conotton gravelly loam, 3 to 8 percent slopes				
	85	Conotton	3s	—
CoD—Conotton gravelly loam, 15 to 25 percent slopes				
	85	Conotton	7e	—
CpB—Coshocton silt loam, 3 to 8 percent slopes				
	85	Coshocton	2e	—
CpC2—Coshocton silt loam, 8 to 15 percent slopes, eroded				
	85	Coshocton	3e	—
CpD—Coshocton silt loam, 15 to 25 percent slopes				
	85	Coshocton	4e	—
CrD—Coshocton loam, 15 to 25 percent slopes				
	80	Coshocton	4e	—
CsC—Coshocton-Guernsey silt loams, 8 to 15 percent slopes				
	55	Coshocton	3e	—
	30	Guernsey	3e	—
CsD—Coshocton-Guernsey silt loams, 15 to 25 percent slopes				
	60	Coshocton	4e	—
	30	Guernsey	4e	—
CsE—Coshocton-Guernsey silt loams, 25 to 40 percent slopes				
	60	Coshocton	6e	—
	30	Guernsey	6e	—
CtC—Coshocton-Guernsey very stony silt loams, 8 to 15 percent slopes				
	55	Coshocton	6s	—
	30	Guernsey	6s	—
CtD—Coshocton-Guernsey very stony silt loams, 15 to 25 percent slopes				
	55	Coshocton	6s	—
	30	Guernsey	6s	—

Land Capability Classification--Tuscarawas County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CuB—Chili loam, 2 to 6 percent slopes				
	85	Chili	2e	—
CvB—Conotton gravelly loam, 2 to 6 percent slopes				
	100	Conotton	3s	—
CvD2—Conotton gravelly loam, 12 to 18 percent slopes, moderately eroded				
	100	Conotton	6e	—
CxF2—Chili and Conotton gravelly loams, 25 to 50 percent slopes, moderately eroded				
	50	Chili	7e	—
	50	Conotton	7e	—
CyB—Coshocton-Keene silt loams, 3 to 8 percent slopes				
	50	Coshocton	2e	—
	35	Keene	2e	—
EkA—Elkinsville silt loam, 0 to 3 percent slopes				
	85	Elkinsville	1	—
FaE—Fairpoint silty clay loam, 25 to 40 percent slopes				
	90	Fairpoint	6e	—
FbA—Fitchville silt loam, 0 to 2 percent slopes				
	90	Fitchville	2w	—
FbB—Fitchville silt loam, 2 to 6 percent slopes				
	85	Fitchville	2e	—
FcA—Fitchville silt loam, 0 to 3 percent slopes				
	85	Fitchville	2w	—
FcB—Fitchville silt loam, 3 to 8 percent slopes				
	85	Fitchville	2e	—
FdA—Fitchville silt loam, clayey substratum, 0 to 3 percent slopes				
	85	Fitchville	2w	—
FdB—Fitchville silt loam, clayey substratum, 3 to 8 percent slopes				
	85	Fitchville	2e	—
FeB—Fitchville-Urban land complex, undulating				
	50	Fitchville	—	—
	30	Urban land	—	—

Land Capability Classification--Tuscarawas County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
FoB—Fairpoint silt loam, 0 to 8 percent slopes				
	100	Fairpoint	3s	—
FoC—Fairpoint silt loam, 8 to 20 percent slopes				
	100	Fairpoint	4s	—
GaB—Gilpin silt loam, 2 to 6 percent slopes				
	100	Gilpin	2e	—
GaC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GbB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GcD—Gilpin silt loam, 15 to 25 percent slopes				
	85	Gilpin	4e	—
GdB—Glenford silt loam, 2 to 6 percent slopes				
	90	Glenford	2e	—
GdC—Glenford silt loam, 6 to 12 percent slopes				
	100	Glenford	3e	—
GdC2—Glenford silt loam, 6 to 12 percent slopes, eroded				
	90	Glenford	3e	—
GeC—Glenford silt loam, 6 to 15 percent slopes				
	85	Glenford	3e	—
GfB—Glenford silt loam, 3 to 8 percent slopes				
	85	Glenford	2e	—
GfC—Glenford silt loam, 8 to 15 percent slopes				
	85	Glenford	3e	—
GgB—Guernsey silt loam, 3 to 8 percent slopes				
	85	Guernsey	2e	—
GgC—Guernsey silt loam, 8 to 15 percent slopes				
	85	Guernsey	3e	—
GgD—Guernsey silt loam, 15 to 25 percent slopes				
	85	Guernsey	4e	—
GgD2—Guernsey silt loam, 15 to 25 percent slopes, eroded				
	80	Guernsey	4e	—

Land Capability Classification--Tuscarawas County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GrC2—Guernsey silty clay loam, 8 to 15 percent slopes, eroded				
	85	Guernsey	3e	—
GrD2—Guernsey silty clay loam, 15 to 25 percent slopes, eroded				
	85	Guernsey	4e	—
HaE—Hazleton channery sandy loam, 25 to 40 percent slopes				
	85	Hazleton	6e	—
HbF—Hazleton channery sandy loam, 25 to 70 percent slopes, very bouldery				
	85	Hazleton	7s	—
HeC—Hazleton channery loam, 8 to 15 percent slopes				
	85	Hazleton	3e	—
HeD—Hazleton channery loam, 15 to 25 percent slopes				
	85	Hazleton	4e	—
HeE—Hazleton channery loam, 25 to 40 percent slopes				
	85	Hazleton	6e	—
HeF—Hazleton channery loam, 40 to 60 percent slopes				
	85	Hazleton	7e	—
HfF—Hazleton channery loam, 25 to 70 percent slopes, stony				
	85	Hazleton	7s	—
HgF—Hazleton extremely bouldery loam, 25 to 60 percent slopes				
	85	Hazleton	7s	—
HkF—Hazleton loam, 25 to 70 percent slopes, very bouldery				
	85	Hazleton	7s	—
Ho—Holton silt loam, occasionally flooded				
	90	Holton	3w	—
JbA—Jimtown loam, 0 to 2 percent slopes				
	90	Jimtown	2w	—
KcB—Keene silt loam, 1 to 8 percent slopes				
	85	Keene	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
KdB--Keene silt loam, 2 to 6 percent slopes				
	85	Keene	2e	—
KeB--Keene silt loam, 3 to 8 percent slopes				
	90	Keene	2e	—
KeC--Keene silt loam, 8 to 15 percent slopes				
	85	Keene	3e	—
LcE2--Licking silt loam, 12 to 25 percent slopes, moderately eroded				
	100	Licking	6e	—
Ln--Linwood mucky silt loam, ponded				
	100	Linwood	5w	—
LoB--Loudonville silt loam, 2 to 6 percent slopes				
	100	Loudonville	2e	—
LoD--Loudonville silt loam, 12 to 18 percent slopes				
	100	Loudonville	4e	—
LoD2--Loudonville silt loam, 12 to 18 percent slopes, moderately eroded				
	100	Loudonville	4e	—
LwD--Lowell-Westmoreland silt loams, 15 to 25 percent slopes				
	50	Lowell, moderately wet	4e	—
	30	Westmoreland	4e	—
Mc--Melvin silt loam, frequently flooded				
	100	Melvin	3w	—
MeB--Mentor silt loam, 2 to 6 percent slopes				
	100	Mentor	2e	—
MrB--Morristown loam, 0 to 8 percent slopes				
	85	Morristown	3s	—
MrC--Morristown loam, 8 to 15 percent slopes				
	85	Morristown	4s	—
MrD--Morristown loam, 15 to 25 percent slopes				
	85	Morristown	4s	—
MrF--Morristown loam, 25 to 70 percent slopes				
	85	Morristown	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
No--Nolin silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Nolin, occasionally flooded	2w	—
Or--Orrville silt loam, occasionally flooded				
	85	Orrville	2w	—
Pt--Pits, gravel				
	100	Pits	—	—
Pu--Pits, quarry				
	100	Pits	—	—
PwB--Plainfield loamy sand, 3 to 8 percent slopes				
	100	Plainfield	4s	—
PyB--Plainfield loamy sand, 0 to 6 percent slopes				
	100	Plainfield	4s	—
PyC--Plainfield loamy sand, 6 to 12 percent slopes				
	100	Plainfield	4s	—
ReB--Ravenna silt loam, 2 to 6 percent slopes				
	100	Ravenna	2e	—
RgC--Rigley sandy loam, 8 to 15 percent slopes				
	100	Rigley	3e	—
RgD--Rigley sandy loam, 15 to 25 percent slopes				
	100	Rigley	4e	—
RgE--Rigley sandy loam, 25 to 40 percent slopes				
	100	Rigley	7e	—
RiC--Rigley sandy loam, 6 to 15 percent slopes				
	85	Rigley	3e	—
RuA--Rush silt loam, 0 to 3 percent slopes				
	85	Rush	1	—
Se--Sebring silt loam				
	85	Sebring	3w	—
ShC3--Shinrock silty clay loam, 8 to 20 percent slopes, severely eroded				
	85	Shinrock	4e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
SpA—Sparta loamy fine sand, 0 to 3 percent slopes				
	100	Sparta	4s	—
To—Tioga loam, occasionally flooded				
	85	Tioga	1	—
Tr—Tioga fine sandy loam, occasionally flooded				
	90	Tioga	1	—
Ua—Udorthents, hilly				
	95	Udorthents, hilly	—	—
Uc—Udorthents-Pits complex				
	70	Udorthents	6s	—
	20	Pits	—	—
UpC—Upshur silt loam, 8 to 15 percent slopes				
	85	Upshur	4e	—
UrC2—Upshur silty clay loam, 6 to 15 percent slopes, eroded				
	85	Upshur	4e	—
W—Water				
	100	Water	—	—
WbA—Weinbach silt loam, 0 to 3 percent slopes				
	80	Weinbach	2w	—
WeC—Westmoreland silt loam, 6 to 15 percent slopes				
	85	Westmoreland	3e	—
WhC—Westmoreland silt loam, 8 to 15 percent slopes				
	80	Westmoreland	3e	—
WhC2—Westmoreland silt loam, 8 to 15 percent slopes, eroded				
	90	Westmoreland	3e	—
WhD—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—
WhE—Westmoreland silt loam, 25 to 35 percent slopes				
	80	Westmoreland	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WhF—Westmoreland silt loam, 35 to 60 percent slopes				
	80	Westmoreland	7e	—
WkC—Westmoreland-Coshocton silt loams, 8 to 15 percent slopes				
	60	Westmoreland	3e	—
	25	Coshocton	3e	—
WkD—Westmoreland-Coshocton silt loams, 15 to 25 percent slopes				
	60	Westmoreland	4e	—
	25	Coshocton	4e	—
WIC2—Westmoreland-Coshocton complex, 8 to 15 percent slopes, eroded				
	50	Westmoreland	3e	—
	40	Coshocton	3e	—
WnC—Westmoreland-Guernsey silt loams, 8 to 15 percent slopes				
	60	Westmoreland	3e	—
	25	Guernsey	3e	—
WnD—Westmoreland-Guernsey silt loams, 15 to 25 percent slopes				
	60	Westmoreland	4e	—
	25	Guernsey	4e	—
WnE—Westmoreland-Guernsey silt loams, 25 to 40 percent slopes				
	60	Westmoreland	6e	—
	25	Guernsey	6e	—
WrA—Wheeling loam, 0 to 3 percent slopes				
	85	Wheeling	1	—
WsA—Wheeling-Urban land complex, nearly level				
	50	Wheeling	—	—
	30	Urban land	—	—
WtA—Wheeling silt loam, 0 to 2 percent slopes				
	90	Wheeling	1	—
WtB—Wheeling silt loam, 2 to 6 percent slopes				
	100	Wheeling	2e	—

Land Capability Classification--Tuscarawas County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WtC—Wheeling silt loam, 6 to 12 percent slopes				
	100	Wheeling	3e	—
WuD2—Wooster silt loam, 12 to 18 percent slopes, eroded				
	90	Wooster	4e	—
WxA—Wheeling loam, 0 to 2 percent slopes				
	100	Wheeling	1	—

Data Source Information

Soil Survey Area: Tuscarawas County, Ohio
 Survey Area Data: Version 13, Sep 15, 2014