

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—Gallia County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AaC—Aaron silt loam, 8 to 15 percent slopes				
	85	Aaron	3e	—
AbC—Aaron-Gilpin complex, 8 to 15 percent slopes				
	50	Aaron	3e	—
	35	Gilpin	3e	—
AkB—Allegheny loam, 3 to 8 percent slopes				
	80	Allegheny	2e	—
AkC—Allegheny loam, 8 to 15 percent slopes				
	80	Allegheny	3e	—
AkD—Allegheny loam, 15 to 25 percent slopes				
	80	Allegheny	4e	—
BcF—Berks-Upshur association, very steep				
	45	Berks	7e	—
	30	Upshur	7e	—
BhD—Bethesda channery clay loam, 8 to 25 percent slopes				
	90	Bethesda	6s	—
BhF—Bethesda channery clay loam, 40 to 70 percent slopes				
	80	Bethesda	7e	—
ChD—Clymer loam, 15 to 25 percent slopes				
	85	Clymer	4e	—
Chg1AF—Chagrin silt loam, 0 to 3 percent slopes, frequently flooded				
	95	Chagrin	2w	—
CkB—Clymer silt loam, 3 to 8 percent slopes				
	85	Clymer	2e	—
CkC—Clymer silt loam, 8 to 15 percent slopes				
	85	Clymer	3e	—
CoB—Coolville silt loam, 1 to 6 percent slopes				
	90	Coolville	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CpB--Coolville silt loam, 3 to 8 percent slopes				
	90	Coolville	2e	—
Cub1AO--Cuba silt loam, 0 to 3 percent slopes, occasionally flooded				
	90	Cuba	2w	—
Dm--Dumps, mine				
	100	Dumps	—	—
Dol1A1--Doles silt loam, 0 to 2 percent slopes				
	85	Doles	2w	—
EkB--Elkinsville silt loam, 1 to 6 percent slopes				
	90	Elkinsville	2e	—
FaB--Fairpoint channery silty clay loam, 1 to 8 percent slopes				
	90	Fairpoint	6s	—
FaD--Fairpoint channery silty clay loam, 8 to 25 percent slopes				
	90	Fairpoint	6s	—
FaE--Fairpoint channery silty clay loam, 25 to 40 percent slopes				
	90	Fairpoint	7e	—
Gal2C1--Gallia loam, 6 to 12 percent slopes				
	85	Gallia	3e	—
GbB--Gallipolis silt loam, 1 to 6 percent slopes				
	90	Gallipolis	2e	—
GbC--Gallipolis silt loam, 6 to 15 percent slopes				
	90	Gallipolis	3e	—
GfB--Gallipolis silt loam, 2 to 6 percent slopes				
	85	Gallipolis	2e	—
GIR1D2--Gilpin-Rarden silt loams, 15 to 25 percent slopes, eroded				
	50	Gilpin	4e	—
	30	Rarden	6e	—
GIR1E1--Gilpin-Rarden silt loams, 25 to 40 percent slopes				
	50	Gilpin	6e	—
	30	Rarden	7e	—

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			Nonirrigated	Irrigated
GIRZE1—Gilpin-Rarden association, steep				
	45	Gilpin	6e	—
	35	Rarden	7e	—
GsC—Guernsey-Gilpin silt loams, 8 to 15 percent slopes				
	45	Guernsey	3e	—
	40	Gilpin	3e	—
GUSZE1—Gilpin-Upshur-Steinsburg association, steep				
	35	Gilpin	7e	—
	25	Upshur	7e	—
	20	Steinsburg	7e	—
GwE—Guernsey-Gilpin association, steep				
	50	Guernsey	6e	—
	35	Gilpin	7e	—
KaB—Kanawha silt loam, 1 to 8 percent slopes				
	90	Kanawha	2e	—
KbB—Kanawha silt loam, 2 to 6 percent slopes				
	90	Kanawha	2e	—
Kg—Kyger loamy sand, frequently flooded				
	90	Kyger	6w	—
KnL1AF—Kinnick-Lindsay silt loams, 0 to 3 percent slopes, frequently flooded				
	70	Kinnick	2w	—
	20	Lindsay	2w	—
LaG1D1—Latham-Gilpin silt loams, 15 to 25 percent slopes				
	50	Latham	6e	—
	35	Gilpin	4e	—
LaG1D2—Latham-Gilpin silt loams, 15 to 25 percent slopes, eroded				
	50	Latham	6e	—
	35	Gilpin	4e	—
LaSZE1—Latham-Steinsburg association, steep				
	45	Latham	6e	—
	40	Steinsburg	7e	—

Land Capability Classification--Gallia County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LgC—Lily loam, 8 to 15 percent slopes				
	90	Lily	3e	—
LgD—Lily loam, 15 to 25 percent slopes				
	90	Lily	4e	—
LhC—Lily silt loam, 8 to 15 percent slopes				
	85	Lily	3e	—
Lic1B1—Licking silt loam, 2 to 6 percent slopes				
	85	Licking	2e	—
Lic1C2—Licking silt loam, 6 to 12 percent slopes, eroded				
	85	Licking	4e	—
Lic1D2—Licking silt loam, 12 to 18 percent slopes, eroded				
	85	Licking	6e	—
LiLXD1—Lily-Latham complex, 15 to 25 percent slopes				
	45	Lily	6e	—
	40	Latham	6e	—
LiRXD1—Lily-Rarden complex, 15 to 25 percent slopes				
	45	Lily	6e	—
	40	Rarden	6e	—
LpD—Lily-Upshur complex, 15 to 25 percent slopes				
	50	Lily	6e	—
	35	Upshur	6e	—
Ls—Lindside silt loam, occasionally flooded				
	95	Lindside	2w	—
McB—McGary silt loam, 1 to 6 percent slopes				
	90	Mcgary	3e	—
MoC—Monongahela loam, 8 to 15 percent slopes				
	85	Monongahela	3e	—
Ne—Newark silt loam, frequently flooded				
	90	Newark	2w	—
New1AF—Newark silt loam, 0 to 3 percent slopes, frequently flooded				
	90	Newark	2w	—

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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	—
Omu1B1—Omulga silt loam, 2 to 6 percent slopes				
	85	Omulga	2e	—
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				
	90	Peoga	3w	—
PgB—Pinegrove sandy loam, 1 to 8 percent slopes				
	90	Pinegrove	7s	—
Pio1AF—Piopolis silt loam, 0 to 2 percent slopes, frequently flooded				
	85	Piopolis	3w	—
PmB—Pinegrove coarse sandy loam, 0 to 8 percent slopes				
	90	Pinegrove	7s	—
PmD—Pinegrove coarse sandy loam, 8 to 25 percent slopes				
	85	Pinegrove	7s	—
PmF—Pinegrove coarse sandy loam, 25 to 70 percent slopes				
	85	Pinegrove	7e	—
PnD—Pinegrove sand, 8 to 25 percent slopes				
	90	Pinegrove	7s	—
PnF—Pinegrove sand, 25 to 70 percent slopes				
	85	Pinegrove	7e	—
Pop1AF—Pope silt loam, 0 to 3 percent slopes, frequently flooded				
	85	Pope	2w	—
Pop1AO—Pope silt loam, 0 to 3 percent slopes, occasionally flooded				
	90	Pope	2w	—

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			Nonirrigated	Irrigated
Pop6AF—Pope fine sandy 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	—	—
Rar1C2—Rarden silt loam, 8 to 15 percent slopes, eroded				
	85	Rarden	4e	—
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	—
RrG1C2—Rarden-Gilpin silt loams, 8 to 15 percent slopes, eroded				
	50	Rarden	4e	—
	40	Gilpin	3e	—
RrG1D1—Rarden-Gilpin silt loams, 15 to 25 percent slopes				
	50	Rarden	6e	—
	40	Gilpin	4e	—
RrG1D2—Rarden-Gilpin silt loams, 15 to 25 percent slopes, eroded				
	50	Rarden	6e	—
	40	Gilpin	4e	—
RrSZE1—Rarden-Steinsburg association, steep				
	45	Rarden	7e	—
	35	Steinsburg	7e	—
RrW1C2—Rarden-Wharton silt loams, 8 to 15 percent slopes, eroded				
	45	Rarden	4e	—
	40	Wharton	3e	—

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			Nonirrigated	Irrigated
RrW1D2—Rarden-Wharton silt loams, 15 to 25 percent slopes, eroded				
	45	Rarden	6e	—
	45	Wharton	4e	—
ScE—Steinsburg-Clymer association, steep				
	60	Steinsburg	7e	—
	20	Clymer	7e	—
SgE—Steinsburg-Gilpin association, steep				
	55	Steinsburg	7e	—
	15	Gilpin	6e	—
SgF—Steinsburg-Gilpin association, very steep				
	55	Steinsburg	7e	—
	20	Gilpin	7e	—
SkP1AF—Stokly-Philo silt loams, 0 to 3 percent slopes, frequently flooded				
	55	Stokly	2w	—
	30	Philo	2w	—
SrF—Steinsburg-Rock outcrop association, very steep				
	60	Steinsburg	7e	—
	15	Rock outcrop	—	—
Stn1AO—Stendal silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Stendal	2w	—
TfA—Taggart silt loam, 0 to 2 percent slopes				
	85	Taggart	2w	—
TgA—Taggart silt loam, 0 to 3 percent slopes				
	85	Taggart	2w	—
Ud—Udorthents				
	100	Udorthents	—	—
Uf—Udorthents, sanitary landfill				
	100	Udorthents	—	—
UgC—Upshur-Gilpin complex, 8 to 15 percent slopes				
	50	Upshur	4e	—
	25	Gilpin	3e	—

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			Nonirrigated	Irrigated
UgC2—Upshur-Gilpin complex, 8 to 15 percent slopes, eroded				
	40	Upshur	4e	—
	40	Gilpin	3e	—
UgD—Upshur-Gilpin complex, 15 to 25 percent slopes				
	50	Upshur	6e	—
	25	Gilpin	4e	—
UgD2—Upshur-Gilpin complex, 15 to 25 percent slopes, eroded				
	40	Upshur	6e	—
	40	Gilpin	4e	—
UgE—Upshur-Gilpin complex, 25 to 50 percent slopes				
	40	Upshur	7e	—
	40	Gilpin	7e	—
VaC2—Vandalia silty clay loam, 6 to 15 percent slopes, eroded				
	80	Vandalia	3e	—
VaD3—Vandalia silty clay loam, 15 to 25 percent slopes, severely eroded				
	80	Vandalia	6e	—
VnD3—Vandalia-Gilpin complex, 15 to 25 percent slopes, severely eroded				
	55	Vandalia	6e	—
	35	Gilpin	6e	—
W—Water				
	100	Water	—	—
WeB—Wellston silt loam, 1 to 6 percent slopes				
	85	Wellston	2e	—
WhA—Wheeling silt loam, 0 to 3 percent slopes				
	90	Wheeling	1	—
WhB—Wheeling silt loam, 3 to 6 percent slopes				
	85	Wheeling	2e	—
WhC—Wheeling silt loam, 6 to 15 percent slopes				
	85	Wheeling	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WhE—Wheeling silt loam, 25 to 40 percent slopes				
	85	Wheeling	6e	—
WoB—Woodsfield silt loam, 1 to 6 percent slopes				
	90	Woodsfield	2e	—
Wya1B1—Wyatt silt loam, 2 to 6 percent slopes				
	85	Wyatt	3e	—
Wya3C2—Wyatt silty clay loam, 6 to 12 percent slopes, eroded				
	85	Wyatt	4e	—
Wya3D2—Wyatt silty clay loam, 12 to 18 percent slopes, eroded				
	85	Wyatt	6e	—
ZaB—Zanesville silt loam, 1 to 6 percent slopes				
	90	Zanesville	2e	—

Data Source Information

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