

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—Jackson County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
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	—
BaD—Barkcamp gravelly loamy sand, 8 to 25 percent slopes				
	90	Barkcamp	8s	—
BbE—Bethesda silty clay loam, 20 to 40 percent slopes				
	90	Bethesda	6e	—
BdD—Bethesda channery silty clay loam, 8 to 25 percent slopes				
	85	Bethesda	6s	—
BhB—Bethesda shaly clay loam, 0 to 8 percent slopes				
	85	Bethesda	6s	—
BhD—Bethesda shaly clay loam, 8 to 25 percent slopes				
	85	Bethesda	6s	—
BhE—Bethesda shaly clay loam, 25 to 40 percent slopes				
	85	Bethesda	7e	—
BkD—Bethesda channery clay loam, 8 to 20 percent slopes				
	85	Bethesda	6s	—
BkE—Bethesda channery clay loam, 20 to 40 percent slopes				
	85	Bethesda	7e	—

Land Capability Classification--Jackson County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BmC—Blairton-Rarden-Gilpin association, rolling				
	30	Blairton	4e	—
	25	Rarden	6e	—
	20	Gilpin	3e	—
BrD—Brownsville channery silt loam, 15 to 25 percent slopes				
	85	Brownsville	4e	—
BsF—Brownsville-Shelocta association, steep				
	50	Brownsville	7e	—
	25	Shelocta	7e	—
ChD—Clymer loam, 15 to 25 percent slopes				
	85	Clymer	4e	—
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, 3 to 8 percent slopes				
	90	Coolville	2e	—
CrD—Cruze silt loam, 12 to 20 percent slopes				
	90	Cruze	4e	—
CtB—Coolville-Tilsit silt loams, 2 to 6 percent slopes				
	60	Coolville	2e	—
	25	Tilsit	2e	—
Cub1AO—Cuba silt loam, 0 to 3 percent slopes, occasionally flooded				
	90	Cuba	2w	—
Dd—Dumps				
	100	Dumps	—	—
Dm—Dumps, mine				
	100	Dumps	—	—
Dol1A1—Doles silt loam, 0 to 2 percent slopes				
	85	Doles	2w	—
ErC—Ernest silt loam, 8 to 15 percent slopes				
	80	Ernest	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
ErD—Ernest silt loam, 15 to 25 percent slopes				
	80	Ernest	4e	—
FaB—Fairpoint silty clay loam, 0 to 8 percent slopes				
	80	Fairpoint	3s	—
FaD—Fairpoint silty clay loam, 8 to 25 percent slopes				
	80	Fairpoint	4s	—
FbB—Fairpoint channery silty clay loam, 1 to 8 percent slopes				
	90	Fairpoint	6s	—
FbD—Fairpoint channery silty clay loam, 8 to 25 percent slopes				
	85	Fairpoint	6s	—
FcB—Fairpoint clay loam, 0 to 8 percent slopes				
	85	Fairpoint	3s	—
FcC—Fairpoint clay loam, 8 to 20 percent slopes				
	85	Fairpoint	4s	—
GbC—Germano-Gilpin complex, 6 to 15 percent slopes				
	50	Germano	3e	—
	40	Gilpin	3e	—
GbD—Germano-Gilpin complex, 15 to 25 percent slopes				
	40	Germano	4e	—
	35	Gilpin	4e	—
GbE—Germano-Gilpin complex, 25 to 40 percent slopes				
	65	Germano	6e	—
	15	Gilpin	6e	—
GhC—Gilpin-Tilsit complex, 6 to 12 percent slopes				
	60	Gilpin	3e	—
	30	Tilsit	3e	—
GIRZE1—Gilpin-Rarden association, steep				
	45	Gilpin	6e	—
	35	Rarden	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GpC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
Ha—Haymond silt loam, occasionally flooded				
	90	Haymond	2w	—
LaG1D1—Latham-Gilpin silt loams, 15 to 25 percent slopes				
	50	Latham	6e	—
	35	Gilpin	4e	—
Lah1D1—Latham silt loam, 15 to 25 percent slopes				
	85	Latham	6e	—
LaSXD1—Latham-Steinsburg complex, 15 to 25 percent slopes				
	45	Latham	6e	—
	40	Steinsburg	4e	—
LaSZE1—Latham-Steinsburg association, steep				
	45	Latham	6e	—
	40	Steinsburg	7e	—
LhW1D2—Latham-Wharton silt loams, 15 to 25 percent slopes, eroded				
	45	Latham	6e	—
	35	Wharton	4e	—
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	—
LtC—Lily loam, 8 to 15 percent slopes				
	90	Lily	3e	—
LtD—Lily loam, 15 to 25 percent slopes				
	90	Lily	4e	—
MdA—McGary silt loam, 0 to 2 percent slopes				
	90	Mcgary	3w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MfA—McGary silty clay loam, 0 to 2 percent slopes				
	85	Mcgary	3w	—
MgA—McGary silt loam, 0 to 4 percent slopes				
	85	Mcgary	3w	—
MoC—Monongahela loam, 8 to 15 percent slopes				
	85	Monongahela	3e	—
MpC2—Monongahela silt loam, 8 to 15 percent slopes, eroded				
	95	Monongahela	3e	—
Omu1A1—Omulga silt loam, 0 to 2 percent slopes				
	85	Omulga	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	—
Pb—Piopolis silt loam, frequently flooded				
	85	Piopolis	3w	—
Pc—Piopolis silt loam, ponded				
	100	Piopolis	5w	—
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	—
Pop1AF—Pope silt loam, 0 to 3 percent slopes, frequently flooded				
	85	Pope	2w	—
Pop6AF—Pope fine sandy loam, 0 to 3 percent slopes, frequently flooded				
	85	Pope	2w	—
Pop6AR—Pope fine sandy loam, 0 to 3 percent slopes, rarely flooded				
	90	Pope	1	—

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			Nonirrigated	Irrigated
Pt--Pits, quarry				
	100	Pits	—	—
Pv--Pope sandy loam, frequently flooded				
	85	Pope	2w	—
Pw--Pope fine sandy loam, rarely flooded				
	90	Pope	1	—
Px--Pope silt loam, frequently flooded				
	85	Pope	2w	—
Py--Pope loam, frequently flooded				
	85	Pope	2w	—
Rar1B1--Rarden silt loam, 3 to 8 percent slopes				
	85	Rarden	3e	—
Rar1C1--Rarden silt loam, 8 to 15 percent slopes				
	85	Rarden	4e	—
Rar1C2--Rarden silt loam, 8 to 15 percent slopes, eroded				
	85	Rarden	4e	—
RcC--Richland silt loam, clayey substratum, 8 to 15 percent slopes				
	80	Richland	3e	—
RgC--Rigley sandy loam, 8 to 15 percent slopes				
	85	Rigley	3e	—
RgD--Rigley sandy loam, 15 to 25 percent slopes				
	85	Rigley	4e	—
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	—
RgRXD1--Rigley-Rarden complex, 15 to 25 percent slopes				
	45	Rigley	4e	—
	40	Rarden	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RgRZE1—Rigley-Rarden association, steep				
	45	Rigley	7e	—
	30	Rarden	7e	—
RmE—Rigley-Clymer association, steep				
	50	Rigley	7e	—
	25	Clymer	6e	—
RrG—Rigley-Rock outcrop association, very steep				
	60	Rigley	7e	—
	15	Rock outcrop	—	—
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	—
RrW1D2—Rarden-Wharton silt loams, 15 to 25 percent slopes, eroded				
	45	Wharton	4e	—
	45	Rarden	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
SbE—Shelocta-Brownsville association, steep				
	40	Shelocta	6e	—
	40	Brownsville	6e	—
SbF—Shelocta-Brownsville association, very steep				
	50	Shelocta	7e	—
	30	Brownsville	7e	—
SeF—Shelocta-Steinsburg association, very steep				
	50	Shelocta	7e	—
	35	Steinsburg	7e	—
ShLZE1—Shelocta-Latham association, steep				
	50	Shelocta	7e	—
	25	Latham	6e	—
ShRZE1—Shelocta-Rarden association, steep				
	50	Shelocta	7e	—
	25	Rarden	7e	—
Sk—Skidmore gravelly loam, frequently flooded				
	85	Skidmore	3s	—
SkP1AF—Stokly-Philo silt loams, 0 to 3 percent slopes, frequently flooded				
	55	Stokly	2w	—
	30	Philo	2w	—
Sm—Skidmore silt loam, occasionally flooded				
	85	Skidmore	3s	—
SrE—Steinsburg-Clymer association, steep				
	50	Steinsburg	7e	—
	30	Clymer	7e	—
St—Stendal silt loam, occasionally flooded				
	85	Stendal	2w	—
Stn1AO—Stendal silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Stendal	2w	—

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			Nonirrigated	Irrigated
SWLZE1—Shelocta-Wharton-Latham association, steep				
	45	Shelocta	7e	—
	30	Wharton	6e	—
	15	Latham	6e	—
TeB—Tilsit silt loam, 3 to 8 percent slopes				
	85	Tilsit	2e	—
To—Tioga loam, occasionally flooded				
	90	Tioga	1	—
TrA—Tygart silt loam, 0 to 3 percent slopes				
	85	Tygart	3e	—
Ud—Udorthents				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
WeB—Wellston silt loam, 3 to 8 percent slopes				
	85	Wellston	2e	—
WeC—Wellston silt loam, 8 to 15 percent slopes				
	85	Wellston	3e	—
WhC—Wharton silt loam, 8 to 15 percent slopes				
	80	Wharton	3e	—
WhD—Wharton silt loam, 15 to 25 percent slopes				
	80	Wharton	4e	—
WhL1C1—Wharton-Latham silt loams, 6 to 15 percent slopes				
	30	Wharton	3e	—
	25	Latham	4e	—
WhL1D1—Wharton-Latham silt loams, 15 to 25 percent slopes				
	55	Wharton	4e	—
	25	Latham	6e	—
WhL1E1—Wharton-Latham silt loams, 25 to 40 percent slopes				
	65	Wharton	6e	—
	25	Latham	6e	—

Land Capability Classification--Jackson County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
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	—

Data Source Information

Soil Survey Area: Jackson County, Ohio
 Survey Area Data: Version 13, Sep 18, 2014