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–Scioto County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AfD—Alford silt loam, 10 to 25 percent slopes				
	85	Alford	4e	—
BeC—Berks channery silt loam, 8 to 15 percent slopes				
	85	Berks	3e	—
BhD—Bethesda very shaly clay loam, 8 to 25 percent slopes				
	85	Bethesda	6s	—
BkD—Bethesda channery silty clay loam, 8 to 25 percent slopes				
	85	Bethesda	6s	—
BrF—Brownsville-Rock outcrop association, very steep				
	45	Brownsville	7e	—
	35	Rock outcrop	—	—
CaF—Casco loam, 40 to 70 percent slopes				
	85	Casco	7e	—
CkC—Clymer silt loam, 8 to 15 percent slopes				
	85	Clymer	3e	—
CoB—Coolville silt loam, 1 to 8 percent slopes				
	90	Coolville	2e	—
CpC—Coolville-Rarden silt loams, 8 to 15 percent slopes				
	65	Coolville	3e	—
	25	Rarden	4e	—
Cu—Cuba silt loam, occasionally flooded				
	95	Cuba	2w	—
DoI1A1—Doles silt loam, 0 to 2 percent slopes				
	85	Doles	2w	—
Dp—Dumps				
	100	Dumps	—	—

Land Capability Classification–Scioto County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EhB—Elkinsville silt loam, 1 to 6 percent slopes				
	85	Elkinsville	2e	—
EkB—Elkinsville silt loam, 1 to 8 percent slopes				
	95	Elkinsville	2e	—
EkE—Elkinsville silt loam, 25 to 40 percent slopes				
	90	Elkinsville	6e	—
EmB—Elkinsville-Urban land complex, 1 to 8 percent slopes				
	40	Urban land	—	—
	40	Elkinsville	—	—
ErD—Ernest silt loam, 15 to 25 percent slopes				
	85	Ernest	4e	—
FcA—Fitchville silt loam, 0 to 3 percent slopes				
	85	Fitchville	2w	—
FoB—Fox loam, 2 to 6 percent slopes				
	85	Fox	2e	—
Ge—Genesee silt loam, occasionally flooded				
	95	Genesee	2w	—
GlL1D1—Gilpin-Latham silt loams, 15 to 25 percent slopes				
	50	Gilpin	4e	—
	35	Latham	6e	—
Ha—Haymond silt loam, occasionally flooded				
	90	Haymond	2w	—
Hu—Huntington silt loam, occasionally flooded				
	95	Huntington	2w	—
La—Landes fine sandy loam, occasionally flooded				
	90	Landes	2w	—
LaG1D1—Latham-Gilpin silt loams, 15 to 25 percent slopes				
	50	Latham	6e	—
	35	Gilpin	4e	—
LaGZD1—Latham-Gilpin association, hilly				
	50	Latham	4e	—
	35	Gilpin	4e	—

Land Capability Classification–Scioto County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Lah1C1—Latham silt loam, 8 to 15 percent slopes				
	90	Latham	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	—
LaSZD1—Latham-Steinsburg association, hilly				
	50	Latham	6e	—
	35	Steinsburg	4e	—
LbD2—Latham silt loam, 15 to 25 percent slopes, eroded				
	85	Latham	7e	—
LBSZE1—Latham-Brownsville-Shelocta association, steep				
	45	Latham	6e	—
	25	Brownsville	6e	—
	25	Shelocta	6e	—
LhW1D1—Latham-Wharton silt loams, 15 to 25 percent slopes				
	45	Latham	6e	—
	35	Wharton	4e	—
MoB—Monongahela silt loam, 3 to 8 percent slopes				
	85	Monongahela	2e	—
MoC2—Monongahela silt loam, 8 to 15 percent slopes, eroded				
	95	Monongahela	3e	—
No—Nolin silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Nolin, occasionally flooded	2w	—
OcB—Ockley loam, 1 to 8 percent slopes				
	95	Ockley	2e	—
Omu1B1—Omulga silt loam, 2 to 6 percent slopes				
	85	Omulga	2e	—

Land Capability Classification–Scioto County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Omu1C1—Omulga silt loam, 6 to 12 percent slopes				
	85	Omulga	3e	—
OpB—Omulga-Urban land complex, 1 to 8 percent slopes				
	50	Omulga	—	—
	30	Urban land	—	—
OpC—Omulga-Urban land complex, 8 to 15 percent slopes				
	55	Omulga	—	—
	35	Urban land	—	—
OsB—Omulga silt loam, 1 to 6 percent slopes				
	85	Omulga	2e	—
OsC2—Omulga silt loam, 6 to 15 percent slopes, eroded				
	85	Omulga	3e	—
Pe—Peoga silt loam, rarely flooded				
	95	Peoga	3w	—
Po—Piopolis silt loam, ponded				
	100	Piopolis	5w	—
Ps—Pits, gravel				
	100	Pits	—	—
Pt—Pits, quarry				
	100	Pits	—	—
RbC—Rarden silt loam, 8 to 15 percent slopes				
	85	Rarden	4e	—
Ro—Rossburg silty clay loam, occasionally flooded				
	90	Rossburg	2w	—
RrG1C1—Rarden-Gilpin silt loams, 8 to 15 percent slopes				
	50	Rarden	4e	—
	40	Gilpin	3e	—
SaB—Sardinia silt loam, 1 to 8 percent slopes				
	95	Sardinia	2e	—
SacB—Sciotoville silt loam, 1 to 8 percent slopes				
	98	Sciotoville	2e	—

Land Capability Classification–Scioto County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
SbB—Shelocta silt loam, 3 to 8 percent slopes				
	90	Shelocta	2e	—
SbC—Shelocta silt loam, 8 to 15 percent slopes				
	90	Shelocta	3e	—
SbD—Shelocta silt loam, 15 to 25 percent slopes				
	85	Shelocta	4e	—
ScE—Shelocta-Brownsville association, steep				
	40	Shelocta	6e	—
	40	Brownsville	6e	—
ScF—Shelocta-Brownsville association, very steep				
	40	Shelocta	7e	—
	40	Brownsville	7e	—
SeF—Shelocta-Steinsburg association, very steep				
	50	Shelocta	7e	—
	35	Steinsburg	7e	—
Sk—Skidmore silt loam, occasionally flooded				
	85	Skidmore	3s	—
SmE—Shelocta-Muse-Colyer association, steep				
	55	Shelocta	7e	—
	25	Muse	7e	—
	15	Colyer	7s	—
SsF—Steinsburg-Shelocta association, very steep				
	50	Steinsburg	7e	—
	35	Shelocta	7e	—
St—Stendal silt loam, occasionally flooded				
	95	Stendal	2w	—
SWLZE1—Shelocta-Wharton-Latham association, steep				
	45	Shelocta	7e	—
	30	Wharton	6e	—
	15	Latham	6e	—

Land Capability Classification–Scioto County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
TcB—Tilsit-Coolville association, undulating				
	60	Tilsit	2e	—
	25	Coolville	2e	—
To—Tioga loam, occasionally flooded				
	90	Tioga	1	—
Ud—Udorthents				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
WdA—Weinbach silt loam, 0 to 2 percent slopes				
	85	Weinbach	2w	—
WeA—Weinbach silt loam, 0 to 3 percent slopes				
	95	Weinbach	2w	—
WfC—Wharton silt loam, 8 to 15 percent slopes				
	80	Wharton	3e	—
WfD—Wharton silt loam, 15 to 25 percent slopes				
	80	Wharton	4e	—
WkD—Wharton-Urban land complex, 8 to 20 percent slopes				
	60	Wharton	—	—
	30	Urban land	—	—
WmB—Wheeling silt loam, 1 to 8 percent slopes				
	90	Wheeling	2e	—
WnB—Wheeling silt loam, 1 to 6 percent slopes				
	90	Wheeling	2e	—
WpB—Wheeling-Urban land complex, 1 to 8 percent slopes				
	60	Wheeling	—	—
	25	Urban land	—	—
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	—

Data Source Information

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