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–Athens County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name		apability class
			Nonirriga ted	Irrigated
AaC2—Aaron silt loam, 6 to 12 percent slopes, eroded				
	85	Aaron	Зе	_
AbC—Aaron silt loam, 6 to 15 percent slopes				
	85	Aaron	Зе	_
AdC2—Aaron-Gilpin complex, 6 to 12 percent slopes, eroded				
	45	Aaron	Зе	_
	35	Gilpin	Зе	_
AgC—Aaron-Gilpin complex, 8 to 15 percent slopes				
	50	Aaron	Зе	_
	35	Gilpin	Зе	
BaF—Barkcamp gravelly sandy loam, 40 to 70 percent slopes				
	90	Barkcamp	8s	_
BkD—Berks-Westmoreland silt loams, 15 to 25 percent slopes				
	50	Berks	4e	—
	35	Westmoreland	4e	_
BkE—Berks-Westmoreland silt loams, 25 to 40 percent slopes				
	55	Berks	6e	
	35	Westmoreland	6e	_
BkF—Berks-Westmoreland silt loams, 40 to 70 percent slopes				
	55	Berks	7e	
	35	Westmoreland	7e	—
BmF—Bethesda channery loam, 20 to 70 percent slopes				
	85	Bethesda	7e	_
BoD—Bethesda shaly silty clay loam, 8 to 25 percent slopes				
	90	Bethesda	6s	_

Land Cap	bability Clas	ssification–Athens County, Ohio		
Map unit symbol and name	Pct. of map unit	Component name	Land Ca Subo	apability class
			Nonirriga ted	Irrigated
BoE—Bethesda shaly silty clay loam, 25 to 40 percent slopes				
	90	Bethesda	7e	
BoF—Bethesda shaly silty clay loam, 40 to 70 percent slopes				
	90	Bethesda	7e	
BrC—Brookside silt loam, 8 to 15 percent slopes				
	80	Brookside	Зе	
BrD—Brookside silt loam, 15 to 25 percent slopes				
	85	Brookside	4e	
BrE—Brookside silt loam, 25 to 40 percent slopes				
	85	Brookside	6e	
BtB—Bethesda channery loam, 0 to 8 percent slopes				
	90	Bethesda	6s	
BtC—Bethesda channery loam, 8 to 20 percent slopes				
	90	Bethesda	6s	
BtE—Bethesda channery loam, 20 to 40 percent slopes				
	90	Bethesda	7e	
BtF—Bethesda channery loam, 40 to 70 percent slopes				
	90	Bethesda	7e	
Chg1AF—Chagrin silt loam, 0 to 3 percent slopes, frequently flooded				
	95	Chagrin	2w	
CmC—Clymer loam, 8 to 15 percent slopes				
	85	Clymer	Зе	
DkE—Dekalb loam, 25 to 40 percent slopes				
	80	Dekalb	6e	
Dol1A1—Doles silt loam, 0 to 2 percent slopes				
	85	Doles	2w	
DsG—Dekalb and Gilpin stony soils, 25 to 70 percent slopes				
	50	Dekalb	7s	
	50	Gilpin	7s	

Land Cap	ability Clas	ssification–Athens County, Ohio		
Map unit symbol and name	Pct. of map unit		Land Ca Subo	apability class
			Nonirriga ted	Irrigated
DtD—Dekalb-Westmoreland complex, 15 to 25 percent slopes				
	55	Dekalb	4e	
	35	Westmoreland	4e	_
DtE—Dekalb-Westmoreland complex, 25 to 40 percent slopes				
	55	Dekalb	6e	_
	35	Westmoreland	6e	_
DtF—Dekalb-Westmoreland complex, 40 to 70 percent slopes				
	55	Dekalb	7e	
	35	Westmoreland	7e	_
DuF—Dekalb-Westmoreland complex, benched, 40 to 70 percent slopes				
	55	Dekalb	7e	_
	35	Westmoreland	7e	_
Dy—Dumps, mine				
	100	Dumps	_	_
EbF—Elba-Brookside-Berks complex, 40 to 70 percent slopes				
	45	Elba	7e	_
	20	Brookside	7e	_
	20	Berks	7e	_
EcA—Euclid silt loam, rarely flooded				
	85	Euclid	2w	_
FaD—Fairpoint silt loam, 8 to 25 percent slopes				
	90	Fairpoint	4s	
FbE—Fairpoint shaly clay loam, 25 to 40 percent slopes				
	90	Fairpoint	7e	_
FbF—Fairpoint shaly clay loam, 40 to 70 percent slopes				
	90	Fairpoint	7e	
FcA—Fitchville silt loam, 0 to 3 percent slopes				
	85	Fitchville	2w	
Gal2C1—Gallia loam, 6 to 12 percent slopes				
	85	Gallia	Зе	

Land Capability Classification–Athens County, Ohio					
Map unit symbol and name	Pct. of map unit		Land Ca Subo		
			Nonirriga ted	Irrigated	
GdC—Gilpin silt loam, 8 to 15 percent slopes					
	80	Gilpin	Зе		
GdD—Gilpin silt loam, 15 to 25 percent slopes					
	85	Gilpin	4e		
GdF—Gilpin silt loam, 25 to 35 percent slopes					
	90	Gilpin	6e	_	
GeD—Germano-Gilpin complex, 15 to 25 percent slopes					
	40	Germano	4e		
	35	Gilpin	4e		
GeE—Germano-Gilpin complex, 25 to 40 percent slopes					
	65	Germano	6e		
	15	Gilpin	6e	_	
GfB—Glenford silt loam, 2 to 6 percent slopes					
	80	Glenford	2e		
GgD—Gilpin-Guernsey complex, 15 to 25 percent slopes					
	50	Gilpin	4e		
	30	Guernsey	4e		
GgE—Gilpin-Guernsey complex, 25 to 40 percent slopes					
	50	Gilpin	6e		
	35	Guernsey	6e		
GhD2—Gilpin-Upshur complex, 12 to 20 percent slopes, eroded					
	45	Gilpin	4e		
	40	Upshur	6e		
GhE2—Gilpin-Upshur complex, 20 to 35 percent slopes, eroded					
	45	Gilpin	6e		
	40	Upshur	7e		
GhF—Gilpin-Upshur complex, 35 to 70 percent slopes					
	50	Gilpin	7e		
	30	Upshur	7e		

Land Cap	ability Clas	ssification–Athens County, Ohio		
Map unit symbol and name	Pct. of map unit		Land Ca Subo	
			Nonirriga ted	Irrigated
GkC—Gilpin-Summitville-Upshur complex, 6 to 12 percent slopes				
	35	Gilpin	Зе	
	20	Summitville	Зе	
	20	Upshur	4e	
GkD—Gilpin-Summitville-Upshur complex, 12 to 18 percent slopes				
	35	Gilpin	4e	
	25	Summitville	4e	
	20	Upshur	6e	
GkE—Gilpin-Summitville-Upshur complex, 18 to 25 percent slopes				
	30	Gilpin	4e	
	30	Summitville	4e	
	25	Upshur	6e	
GkE3—Gilpin-Summitville-Upshur complex, 18 to 25 percent slopes, severely eroded				
	30	Gilpin	6e	
	30	Summitville	4e	
	25	Upshur	7e	
GkF—Gilpin-Summitville-Upshur complex, 25 to 35 percent slopes				
	40	Gilpin	6e	
	30	Summitville	6e	
	20	Upshur	7e	
GIF—Gilpin-Summitville-Upshur complex, 25 to 35 percent slopes, benched				
	50	Gilpin	6e	
	20	Summitville	6e	
	20	Upshur	7e	
GIG—Gilpin-Summitville-Upshur complex, 35 to 70 percent slopes, benched				
	50	Gilpin	7e	
	20	Summitville	7e	
	20	Upshur	7e	
GmA-Glenford silt loam, 0 to 3 percent slopes				
	85	Glenford	1	

USDA Natural Resources Conservation Service

Land Capability Classification–Athens County, Ohio					
Map unit symbol and name	Pct. of map unit	Component name	Land Ca Subo		
			Nonirriga ted	Irrigated	
GmB—Glenford silt loam, 3 to 8 percent slopes					
	85	Glenford	2e		
GmC—Glenford silt loam, 8 to 15 percent slopes					
	85	Glenford	Зе	_	
GoC2—Gilpin silt loam, 8 to 15 percent slopes, eroded					
	90	Gilpin	Зе	_	
GpC—Gilpin-Aaron complex, 6 to 15 percent slopes					
	50	Gilpin	Зе		
	25	Aaron	Зе	_	
GrC—Gilpin-Upshur silt loams, 8 to 15 percent slopes					
	50	Gilpin	Зе		
	30	Upshur	4e	—	
GrD—Gilpin-Upshur silt loams, 15 to 25 percent slopes					
	50	Gilpin	4e		
	30	Upshur	6e	—	
GrE—Gilpin-Upshur complex, 25 to 50 percent slopes					
	45	Gilpin	6e		
	35	Upshur	7e	_	
GsB—Guernsey silt loam, 3 to 8 percent slopes					
	85	Guernsey	2e	_	
GsC—Guernsey silt loam, 8 to 15 percent slopes					
	85	Guernsey	Зе		
GuC—Guernsey-Upshur complex, 8 to 15 percent slopes					
	50	Guernsey	Зе		
	30	Upshur	Зе		
GuD—Guernsey-Upshur complex, 15 to 25 percent slopes					
	50	Guernsey	4e		
	30	Upshur	4e		

Land Cap	bability Clas	ssification–Athens County, Ohio		
Map unit symbol and name	Pct. of map unit	Component name	Land Ca Subo	
			Nonirriga ted	Irrigated
GwC—Guernsey-Westmoreland silt loams, 8 to 15 percent slopes				
	50	Guernsey	Зе	
	30	Westmoreland	Зе	
GwD—Guernsey-Westmoreland silt loams, 15 to 25 percent slopes				
	45	Guernsey	4e	
	35	Westmoreland	4e	
GwE—Guernsey-Westmoreland silt loams, 25 to 40 percent slopes				
	45	Guernsey	6e	
	35	Westmoreland	6e	
GxD—Guernsey-Gilpin complex, 15 to 25 percent slopes				
	45	Guernsey	4e	
	40	Gilpin	4e	
GxE—Guernsey-Gilpin complex, 25 to 40 percent slopes				
	45	Guernsey	6e	
	45	Gilpin	6e	
GyB—Gallipolis silt loam, 2 to 6 percent slopes				
	85	Gallipolis	2e	
Hay1AF—Haymond silt loam, 0 to 3 percent slopes, frequently flooded				
	85	Haymond	2w	
Hay1AO—Haymond silt loam, 0 to 3 percent slopes, occasionally flooded				
	88	Haymond	2w	
HcA—Hackers silt loam, 0 to 3 percent slopes, rarely flooded				
	85	Hackers	1	
He—Hartshorn silt loam				
	90	Hartshorn	2s	_
KeB—Keene silt loam, 3 to 8 percent slopes				
	90	Keene	2e	_
KeC—Keene silt loam, 6 to 12 percent slopes				
	80	Keene	Зе	

Land Capability Classification–Athens County, Ohio					
Map unit symbol and name	Pct. of map unit	Component name	Land Capab Subclass		
			Nonirriga ted	Irrigated	
KnL1AF—Kinnick-Lindside silt loams, 0 to 3 percent slopes, frequently flooded					
	70	Kinnick	2w	_	
	20	Lindside	2w	_	
Lck1BO—Licking silt loam, 1 to 4 percent slopes, occasionally flooded					
	85	Licking	2e		
Lic1B1—Licking silt loam, 2 to 6 percent slopes	05	Lielder	22		
Lic1C2—Licking silt loam, 6 to 12 percent slopes, eroded	85	Licking	2e		
	85	Licking	4e		
LoC—Lowell-Upshur complex, 6 to 12 percent slopes		-			
	45	Lowell	Зе		
	35	Upshur	4e		
LrF—Lowell-Gilpin complex, 35 to 70 percent slopes					
	45	Lowell	7e		
	40	Gilpin	7e		
McA—McGary silt loam, 0 to 3 percent slopes					
	85	Mcgary	3w		
Mel1AF—Melvin silt loam, 0 to 2 percent slopes, frequently flooded					
	90	Melvin	3w		
MnD—Morristown silty clay loam, 6 to 20 percent slopes					
	100	Morristown	4s		
Mos1AF—Moshannon silt loam, 0 to 3 percent slopes, frequently flooded					
	90	Moshannon	2w	_	
MrF—Morristown channery clay loam, 20 to 70 percent slopes, very stony					
	85	Morristown	7e		
NeC—Negley loam, 8 to 15 percent slopes					
	95	Negley	Зе		
New1AF—Newark silt loam, 0 to 3 percent slopes, frequently flooded					
	90	Newark	2w	_	

Land Cap	bability Clas	ssification–Athens County, Ohio			
Map unit symbol and name	Pct. of map unit	Component name		Land Capability Subclass	
			Nonirriga ted	Irrigated	
NgE—Negley gravelly loam, 25 to 40 percent slopes					
	95	Negley	6e		
No—Nolin silt loam, 0 to 3 percent slopes, frequently flooded					
	90	Nolin	2w		
Omu1B1—Omulga silt loam, 2 to 6 percent slopes					
	85	Omulga	2e		
Omu1C1—Omulga silt loam, 6 to 12 percent slopes					
	85	Omulga	Зе		
Orr1AF—Orrville silt loam, 0 to 3 percent slopes, frequently flooded					
	85	Orrville	2w	_	
OwB—Otwell silt loam, 2 to 6 percent slopes					
	85	Otwell	2e		
OwC—Otwell silt loam, 6 to 12 percent slopes					
	80	Otwell	Зе		
PaB—Parke silt loam, 2 to 6 percent slopes					
	85	Parke	2e		
Pg—Pits, gravel					
	100	Pits			
PpS1AF—Pope-Stokly silt loams, 0 to 3 percent slopes, frequently flooded					
	45	Роре	2w		
	40	Stokly	2w		
RcC—Richland loam, 8 to 15 percent slopes					
	85	Richland	Зе		
RcD—Richland loam, 15 to 25 percent slopes					
	85	Richland	4e		
RcE—Richland loam, 25 to 40 percent slopes					
	85	Richland	6e		
SkP1AF—Stokly-Philo silt loams, 0 to 3 percent slopes, frequently flooded					
	55	Stokly	2w		
	30	Philo	2w		

Land Capability Classification–Athens County, Ohio					
Map unit symbol and name	Pct. of map unit		Land Ca Subo		
			Nonirriga ted	Irrigated	
StD—Steinsburg sandy loam, 15 to 25 percent slopes					
	85	Steinsburg	4e		
StE—Steinsburg sandy loam, 25 to 40 percent slopes					
	85	Steinsburg	7e		
StF—Steinsburg sandy loam, 40 to 70 percent slopes					
	90	Steinsburg	7e		
SvF—Steinsburg-Gilpin association, very steep					
	55	Steinsburg	7e		
	20	Gilpin	7e		
Ud—Udorthents, loamy					
	100	Udorthents	6s		
UgC2—Upshur-Gilpin silt loams, 8 to 15 percent slopes, eroded					
	45	Upshur	4e		
	40	Gilpin	Зе		
UgD—Upshur-Gilpin silt loams, 15 to 25 percent slopes					
	55	Upshur	6e		
	25	Gilpin	4e		
UgE—Upshur-Gilpin complex, 25 to 50 percent slopes					
	45	Upshur	7e		
	35	Gilpin	7e		
UpC—Upshur silty clay loam, 8 to 15 percent slopes					
	85	Upshur	4e		
UpD—Upshur silty clay loam, 15 to 25 percent slopes					
	80	Upshur	6e		
UsC—Upshur-Elba silty clay loams, 8 to 15 percent slopes					
	55	Upshur	4e		
	35	Elba	4e		

Land Capability Classification–Athens County, Ohio					
Map unit symbol and name	Pct. of map unit		Land Ca Subo	apability class	
			Nonirriga ted	Irrigated	
UsD—Upshur-Elba silty clay loams, 15 to 25 percent slopes					
	55	Upshur	6e		
	35	Elba	6e	_	
UvD—Upshur-Steinsburg complex, 15 to 25 percent slopes					
	50	Upshur	6e	_	
	30	Steinsburg	4e	_	
UwF—Upshur-Gilpin complex, 25 to 35 percent slopes					
	50	Upshur	7e		
	25	Gilpin	6e		
VaC—Vandalia silty clay loam, 8 to 15 percent slopes					
	80	Vandalia	Зе	_	
VbD—Vandalia-Brookside complex, 15 to 25 percent slopes					
	55	Vandalia	4e		
	35	Brookside	4e		
VbE—Vandalia-Brookside complex, 25 to 40 percent slopes					
	50	Vandalia	6e		
	35	Brookside	6e	_	
VcD—Vandalia-Richland complex, 15 to 25 percent slopes					
	50	Vandalia	4e	_	
	35	Richland	4e	_	
VcE—Vandalia-Richland complex, 25 to 40 percent slopes					
	55	Vandalia	6e		
	35	Richland	6e	_	
Vin1C1—Vincent silt loam, 6 to 12 percent slopes					
	85	Vincent	Зе	_	
VqD2—Vandalia silt loam, 15 to 25 percent slopes					
	80	Vandalia	4e		
W—Water					
	100	Water	_	_	

Land Cap	bability Clas	ssification–Athens County, Ohio		
Map unit symbol and name	Pct. of map unit	Component name	Land Ca Subo	apability class
			Nonirriga ted	Irrigated
WdB-Wellston silt loam, 3 to 8 percent slopes				
	85	Wellston	2e	
WdC—Wellston silt loam, 8 to 15 percent slopes				
	85	Wellston	Зе	
WeB—Westmore silt loam, 3 to 8 percent slopes				
	100	Westmore	2e	
WeC—Westmore silt loam, 8 to 15 percent slopes				
	100	Westmore	Зе	
WgD—Westmoreland-Gilpin complex, 15 to 25 percent slopes				
	40	Westmoreland	4e	
	35	Gilpin	4e	
WgE—Westmoreland-Gilpin complex, 25 to 40 percent slopes				
	40	Westmoreland	6e	
	35	Gilpin	6e	
WgF—Westmoreland-Gilpin complex, 40 to 70 percent slopes				
	40	Westmoreland	7e	
	35	Gilpin	7e	
WhC—Westmoreland-Guernsey silt loams, 8 to 15 percent slopes				
	50	Westmoreland	Зе	
	35	Guernsey	Зе	
WhD—Westmoreland-Guernsey silt loams, 15 to 25 percent slopes				
	50	Westmoreland	4e	
	35	Guernsey	4e	
WhE—Westmoreland-Guernsey silt loams, 25 to 40 percent slopes				
	50	Westmoreland	6e	
	35	Guernsey	6e	
WhF—Westmoreland-Guernsey silt loams, 40 to 70 percent slopes				
	50	Westmoreland	7e	
	35	Guernsey	7e	

Land Capability Classification–Athens County, Ohio						
Map unit symbol and name	Pct. of map unit	Component name		Land Capability Subclass		
			Nonirriga ted	Irrigated		
WkF—Westmoreland-Guernsey silt loams, benched, 40 to 70 percent slopes						
	50	Westmoreland	7e			
	35	Guernsey	7e			
WmC—Westmoreland-Upshur complex, 8 to 15 percent slopes						
	50	Westmoreland	Зе			
	35	Upshur	Зе	—		
WmD—Westmoreland-Upshur complex, 15 to 25 percent slopes						
	45	Westmoreland	4e			
	40	Upshur	4e	_		
WmE—Westmoreland-Upshur complex, 25 to 40 percent slopes						
	50	Westmoreland	6e	_		
	35	Upshur	6e			
WmF—Westmoreland-Upshur complex, 40 to 70 percent slopes						
	55	Westmoreland	7e			
	30	Upshur	7e	—		
WnC—Wellston silt loam, 6 to 12 percent slopes						
	100	Wellston	Зе	_		
WpB—Wheeling loam, 3 to 8 percent slopes						
	90	Wheeling	2e			
WqB—Westmore silt loam, 2 to 6 percent slopes						
	85	Westmore	2e			
WtB—Woodsfield silt loam, 3 to 8 percent slopes						
	90	Woodsfield	2e			
WtC—Woodsfield silt loam, 8 to 15 percent slopes						
	85	Woodsfield	Зе			
Wya1B1—Wyatt silt loam, 2 to 6 percent slopes						
	85	Wyatt	Зе			
Wya3C2—Wyatt silty clay loam, 6 to 12 percent slopes, eroded						
	85	Wyatt	4e			

Land Capability Classification–Athens County, Ohio					
Map unit symbol and name	Pct. of Component name map unit		Land Capability Subclass		
			Nonirriga ted	Irrigated	
ZnB—Zanesville silt loam, 3 to 8 percent slopes					
	100	Zanesville	2e	—	

Data Source Information

Soil Survey Area:	Athens County, Ohio
Survey Area Data:	Version 16, Sep 24, 2015