

## 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—Noble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AaC2—Aaron silt loam, 6 to 12 percent slopes, eroded				
	85	Aaron	3e	—
AID—Allegheny silt loam, 12 to 18 percent slopes				
	100	Allegheny	4e	—
BaB—Barkcamp channery sandy loam, 0 to 8 percent slopes, very stony				
	90	Barkcamp	8s	—
BaF—Barkcamp channery sandy loam, 25 to 70 percent slopes, very stony				
	90	Barkcamp	8s	—
BcC—Berks channery silt loam, 8 to 15 percent slopes				
	85	Berks	3e	—
BcD—Berks channery silt loam, 15 to 25 percent slopes				
	85	Berks	4e	—
BcE—Berks channery silt loam, 25 to 40 percent slopes				
	80	Berks	6e	—
BcF—Berks channery silt loam, 40 to 70 percent slopes				
	80	Berks	7e	—
BkC—Berks shaly silt loam, 8 to 15 percent slopes				
	90	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	—

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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	—
BmB—Bethesda channery loam, 0 to 8 percent slopes				
	90	Bethesda	6s	—
BmF—Bethesda channery loam, 25 to 70 percent slopes				
	90	Bethesda	7e	—
BnD—Bethesda silty clay loam, 15 to 25 percent slopes				
	90	Bethesda	4s	—
BoB—Bethesda very shaly silty clay loam, 0 to 8 percent slopes				
	90	Bethesda	6s	—
BoF—Bethesda very shaly silty clay loam, 25 to 70 percent slopes				
	85	Bethesda	7e	—
BpD—Bethesda clay loam, 8 to 25 percent slopes				
	90	Bethesda	4s	—
BrC—Brookside silt loam, 8 to 15 percent slopes				
	80	Brookside	3e	—
BrD—Brookside silt loam, 15 to 25 percent slopes				
	85	Brookside	4e	—
BrE—Brookside silt loam, 25 to 40 percent slopes				
	85	Brookside	6e	—
BsC2—Brookside silt loam, 8 to 15 percent slopes, eroded				
	85	Brookside	3e	—
BsD2—Brookside silt loam, 15 to 25 percent slopes, eroded				
	85	Brookside	4e	—
BtC—Brookside-Vandalia complex, 8 to 15 percent slopes				
	45	Brookside	3e	—
	35	Vandalia	3e	—

Land Capability Classification--Noble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BtD—Brookside-Vandalia complex, 15 to 25 percent slopes				
	50	Brookside	4e	—
	30	Vandalia	4e	—
BtD2—Brookside-Vandalia complex, 15 to 25 percent slopes, eroded				
	45	Brookside	4e	—
	40	Vandalia	4e	—
BtE—Brookside-Vandalia complex, 25 to 40 percent slopes				
	50	Brookside	6e	—
	30	Vandalia	6e	—
BtE2—Brookside-Vandalia complex, 25 to 35 percent slopes, eroded				
	45	Brookside	6e	—
	35	Vandalia	6e	—
Ch—Chagrin silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Chagrin	2w	—
Chg1AF—Chagrin silt loam, 0 to 3 percent slopes, frequently flooded				
	95	Chagrin	2w	—
DhC—DeKalb loam, 8 to 15 percent slopes				
	80	DeKalb	3e	—
DkE—DeKalb channery loam, 25 to 40 percent slopes				
	85	DeKalb	6e	—
DkF—DeKalb channery loam, 40 to 70 percent slopes				
	85	DeKalb	7e	—
EbD—Elba silty clay loam, 15 to 25 percent slopes				
	85	Elba	4e	—
EbD2—Elba silty clay loam, 15 to 25 percent slopes, eroded				
	90	Elba	4e	—
EbE—Elba silty clay loam, 25 to 40 percent slopes				
	80	Elba	6e	—

Land Capability Classification--Noble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EbE2—Elba silty clay loam, 25 to 40 percent slopes, eroded				
	90	Elba	6e	—
EbF2—Elba silty clay loam, 40 to 70 percent slopes, eroded				
	85	Elba	7e	—
EdD2—Elba-Guernsey silty clay loams, 15 to 25 percent slopes, eroded				
	40	Guernsey	4e	—
	40	Elba	4e	—
EdE2—Elba-Guernsey silty clay loams, 25 to 35 percent slopes, eroded				
	50	Elba	6e	—
	40	Guernsey	6e	—
EnB—Enoch shaly silty clay loam, 0 to 8 percent slopes, very stony				
	85	Enoch	8s	—
EnD—Enoch shaly silty clay loam, 15 to 25 percent slopes, very stony				
	90	Enoch	8s	—
EnF—Enoch shaly silty clay loam, 25 to 70 percent slopes, very stony				
	85	Enoch	8s	—
GdC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GdD—Gilpin silt loam, 15 to 25 percent slopes				
	85	Gilpin	4e	—
GdE—Gilpin silt loam, 25 to 35 percent slopes				
	90	Gilpin	6e	—
GdF—Gilpin silt loam, 35 to 70 percent slopes				
	75	Gilpin	7e	—
GkD2—Gilpin-Upshur complex, 15 to 25 percent slopes				
	50	Gilpin	4e	—
	30	Upshur	6e	—
GkE2—Gilpin-Upshur complex, 25 to 35 percent slopes				
	50	Gilpin	6e	—
	25	Upshur	7e	—

Land Capability Classification--Noble County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GkF—Gilpin-Upshur complex, 35 to 70 percent slopes				
	45	Gilpin	7e	—
	35	Upshur	7e	—
GkF2—Gilpin-Upshur complex, 35 to 70 percent slopes				
	50	Gilpin	7e	—
	30	Upshur	7e	—
GmC2—Gilpin-Upshur complex, 6 to 12 percent slopes, moderately eroded				
	55	Gilpin	3e	—
	35	Upshur	4e	—
GuB—Guernsey silt loam, 1 to 6 percent slopes				
	85	Guernsey	2e	—
GuC—Guernsey silt loam, 6 to 15 percent slopes				
	85	Guernsey	3e	—
GuD—Guernsey silt loam, 15 to 25 percent slopes				
	85	Guernsey	4e	—
GuD2—Guernsey silt loam, 15 to 25 percent slopes, eroded				
	80	Guernsey	4e	—
GvC—Guernsey silt loam, 8 to 15 percent slopes				
	80	Guernsey	3e	—
GwD2—Guernsey-Upshur silty clay loams, 15 to 25 percent slopes, eroded				
	50	Guernsey	4e	—
	40	Upshur	6e	—
GxD—Guernsey-Upshur complex, 15 to 25 percent slopes				
	50	Guernsey	4e	—
	35	Upshur	6e	—
He—Hartshorn silt loam				
	100	Hartshorn	2s	—
Hf—Hartshorn silt loam, occasionally flooded				
	85	Hartshorn	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
KnL1AF—Kinnick-Lindside silt loams, 0 to 3 percent slopes, frequently flooded				
	70	Kinnick	2w	—
	20	Lindside	2w	—
Lh—Lindside silt loam				
	95	Lindside	2w	—
LoC—Lowell silt loam, 8 to 15 percent slopes				
	85	Lowell	3e	—
LoD—Lowell silt loam, 15 to 25 percent slopes				
	85	Lowell	4e	—
LoE—Lowell silt loam, 25 to 40 percent slopes				
	85	Lowell	6e	—
LpE2—Lowell silty clay loam, 25 to 40 percent slopes, eroded				
	85	Lowell	7e	—
LrE2—Lowell-Gilpin complex, 25 to 40 percent slopes, eroded				
	45	Lowell	7e	—
	35	Gilpin	7e	—
LrF—Lowell-Gilpin complex, 40 to 70 percent slopes				
	45	Lowell	7e	—
	30	Gilpin	7e	—
LtE2—Lowell-Elba silty clay loams, 25 to 40 percent slopes, eroded				
	50	Lowell	6e	—
	35	Elba	6e	—
LtF2—Lowell-Elba silty clay loams, 40 to 70 percent slopes, eroded				
	50	Lowell	7e	—
	35	Elba	7e	—
LuE—Lowell-Gilpin silt loams, 25 to 35 percent slopes				
	50	Lowell	6e	—
	35	Gilpin	6e	—
LuF—Lowell-Gilpin silt loams, 35 to 70 percent slopes				
	50	Lowell	7e	—
	35	Gilpin	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LvD2—Lowell-Upshur silty clay loams, 15 to 25 percent slopes, eroded				
	50	Lowell	6e	—
	35	Upshur	6e	—
LvE—Lowell-Upshur complex, 25 to 40 percent slopes				
	50	Lowell	6e	—
	35	Upshur	7e	—
LvE2—Lowell-Upshur silty clay loams, 25 to 40 percent slopes, eroded				
	50	Lowell	7e	—
	35	Upshur	7e	—
LvF2—Lowell-Upshur silty clay loams, 40 to 70 percent slopes, eroded				
	50	Lowell	7e	—
	35	Upshur	7e	—
LxE—Lowell-Westmoreland complex, 25 to 40 percent slopes				
	50	Lowell	6e	—
	30	Westmoreland	6e	—
LxF—Lowell-Westmoreland silt loams, 35 to 70 percent slopes				
	45	Lowell	7e	—
	30	Westmoreland	7e	—
LyC—Lowell-Westmoreland silt loams, 8 to 15 percent slopes				
	50	Lowell, moderately wet	3e	—
	35	Westmoreland	3e	—
LyD—Lowell-Westmoreland silt loams, 15 to 25 percent slopes				
	50	Lowell, moderately wet	4e	—
	30	Westmoreland	4e	—
LyE—Lowell-Westmoreland silt loams, 25 to 35 percent slopes				
	45	Lowell	6e	—
	30	Westmoreland	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LyF—Lowell-Westmoreland silt loams, 40 to 70 percent slopes				
	45	Lowell	7e	—
	35	Westmoreland	7e	—
MoB—Morristown silty clay loam, 0 to 8 percent slopes				
	85	Morristown	3s	—
MoC—Morristown silty clay loam, 8 to 15 percent slopes				
	85	Morristown	4s	—
MoD—Morristown silty clay loam, 15 to 25 percent slopes				
	85	Morristown	4s	—
MoF—Morristown channery clay loam, 40 to 70 percent slopes				
	85	Morristown	7e	—
MrB—Morristown channery silty clay loam, 0 to 8 percent slopes				
	75	Morristown	6s	—
MrD—Morristown channery silty clay loam, 8 to 25 percent slopes				
	80	Morristown	6s	—
MrF—Morristown channery silty clay loam, 25 to 70 percent slopes				
	75	Morristown	7e	—
Ne—Newark silt loam, occasionally flooded				
	85	Newark	2w	—
New1AF—Newark silt loam, 0 to 3 percent slopes, frequently flooded				
	90	Newark	2w	—
Ng—Newark silt loam, frequently flooded				
	90	Newark	3w	—
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	—

Land Capability Classification--Noble 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	—
OtC—Otwell silt loam, 6 to 12 percent slopes				
	100	Otwell	3e	—
RcD—Richland channery loam, 15 to 25 percent slopes				
	80	Richland	4e	—
Sa—Sarahsville silty clay, frequently flooded				
	85	Sarahsville	4w	—
Sb—Sarahsville silty clay loam, frequently flooded				
	90	Sarahsville	4w	—
Ub—Udorthents				
	100	Udorthents	—	—
Uc—Udorthents-Pits complex				
	70	Udorthents	—	—
	20	Pits	—	—
UnC—Upshur silty clay loam, 8 to 15 percent slopes				
	85	Upshur	4e	—
UnD—Upshur silty clay loam, 15 to 25 percent slopes				
	80	Upshur	6e	—
UnD3—Upshur silty clay loam, 15 to 25 percent slopes, severely eroded				
	85	Upshur	7e	—
UpB—Upshur silt loam, 3 to 8 percent slopes				
	85	Upshur	3e	—
UpC—Upshur silt loam, 8 to 15 percent slopes				
	85	Upshur	4e	—
UrC3—Upshur silty clay, 8 to 15 percent slopes, severely eroded				
	90	Upshur	6e	—
UrD3—Upshur silty clay, 15 to 25 percent slopes, severely eroded				
	85	Upshur	7e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
UrE3—Upshur silty clay, 25 to 40 percent slopes, severely eroded				
	85	Upshur	7e	—
UsB—Upshur silt loam, 2 to 6 percent slopes				
	85	Upshur	3e	—
VaD2—Vandalia silty clay loam, 15 to 25 percent slopes, eroded				
	85	Vandalia	4e	—
VaE2—Vandalia silty clay loam, 25 to 35 percent slopes				
	85	Vandalia	6e	—
VbC—Vandalia silty clay loam, 6 to 12 percent slopes				
	95	Vandalia	3e	—
VcC2—Vandalia-Guernsey silty clay loams, 8 to 15 percent slopes, eroded				
	50	Vandalia	3e	—
	35	Guernsey	3e	—
VcD2—Vandalia-Guernsey silty clay loams, 15 to 25 percent slopes, eroded				
	50	Vandalia	4e	—
	35	Guernsey	4e	—
VcE2—Vandalia-Guernsey silty clay loams, 25 to 35 percent slopes, eroded				
	50	Vandalia	6e	—
	35	Guernsey	6e	—
W—Water				
	100	Water	—	—
WhD2—Wellston silt loam, 12 to 18 percent slopes				
	90	Wellston	4e	—
WkB—Westmoreland silt loam, 3 to 8 percent slopes				
	85	Westmoreland	2e	—
WkE—Westmoreland silt loam, 25 to 35 percent slopes				
	80	Westmoreland	6e	—
WnC—Woodsfield silt loam, 8 to 15 percent slopes				
	85	Woodsfield	3e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WoB—Woodsfield silt loam, 1 to 6 percent slopes				
	85	Woodsfield	2e	—
WoC—Woodsfield silt loam, 6 to 15 percent slopes				
	85	Woodsfield	3e	—
WoD—Woodsfield silt loam, 15 to 25 percent slopes				
	85	Woodsfield	4e	—
WpB—Woodsfield silt loam, 2 to 6 percent slopes				
	85	Woodsfield	2e	—
WpC2—Woodsfield silt loam, 6 to 12 percent slopes, eroded				
	85	Woodsfield	3e	—
ZaB—Zanesville silt loam, 1 to 6 percent slopes				
	85	Zanesville	2e	—
ZaC—Zanesville silt loam, 6 to 15 percent slopes				
	85	Zanesville	3e	—
ZaC2—Zanesville silt loam, 6 to 15 percent slopes, eroded				
	75	Zanesville	3e	—
ZnB—Zanesville silt loam, 2 to 6 percent slopes				
	85	Zanesville	2e	—

## Data Source Information

Soil Survey Area: Noble County, Ohio  
 Survey Area Data: Version 13, Sep 19, 2014