

## 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--Adams County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AaA—Aaron silt loam, 0 to 2 percent slopes				
	85	Aaron	2w	—
AaB—Aaron silt loam, 2 to 6 percent slopes				
	85	Aaron	2e	—
BkD—Berks silt loam, 15 to 25 percent slopes				
	85	Berks	4e	—
BnB—Bratton silt loam, 2 to 8 percent slopes				
	85	Bratton	2e	—
BrC2—Bratton-Opequon complex, 8 to 15 percent slopes, eroded				
	45	Bratton	4e	—
	40	Opequon	4e	—
BsC2—Brushcreek silt loam, 6 to 12 percent slopes, eroded				
	85	Brushcreek	3e	—
BtD2—Brushcreek-Lawshe complex, 12 to 25 percent slopes, eroded				
	55	Brushcreek	6e	—
	30	Lawshe	7e	—
CkB—Cincinnati silt loam, 2 to 6 percent slopes				
	85	Cincinnati	2e	—
CkC2—Cincinnati silt loam, 6 to 12 percent slopes, eroded				
	85	Cincinnati	3e	—
CrB—Crider silt loam, 1 to 6 percent slopes				
	80	Crider	2e	—
EaE—Eden flaggy silt loam, 25 to 40 percent slopes				
	85	Eden	7e	—
EaF—Eden flaggy silt loam, 40 to 70 percent slopes				
	90	Eden	7e	—

Land Capability Classification--Adams County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EgE2—Eden flaggy silty clay loam, 25 to 40 percent slopes, eroded				
	85	Eden	7e	—
EgF2—Eden flaggy silty clay loam, 40 to 70 percent slopes, eroded				
	85	Eden	7e	—
EkB—Elkinsville silt loam, 1 to 6 percent slopes				
	85	Elkinsville	2e	—
EnB—Elkinsville silt loam, 2 to 6 percent slopes				
	85	Elkinsville	2e	—
FaC2—Faywood silt loam, 8 to 15 percent slopes, eroded				
	85	Faywood	3e	—
FbD2—Faywood silty clay loam, 15 to 25 percent slopes, eroded				
	85	Faywood	4e	—
FeC2—Faywood-Lowell silt loams, 8 to 15 percent slopes, eroded				
	50	Faywood	3e	—
	35	Lowell	3e	—
Ge—Gessie loam, frequently flooded				
	90	Gessie	2w	—
JeB—Jessup silt loam, 1 to 8 percent slopes				
	85	Jessup	2e	—
JeC2—Jessup silt loam, 8 to 15 percent slopes, eroded				
	85	Jessup	3e	—
JeD2—Jessup silt loam, 15 to 25 percent slopes, eroded				
	90	Jessup	4e	—
JeE2—Jessup silt loam, 25 to 35 percent slopes, eroded				
	90	Jessup	6e	—
JoR1B1—Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes				
	50	Jonesboro	2e	—
	45	Rossmoyne	2e	—
LbC—Latham silt loam, 8 to 15 percent slopes				
	90	Latham	3e	—

Land Capability Classification--Adams County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
LbD2—Latham silt loam, 15 to 25 percent slopes, eroded				
	85	Latham	7e	—
LdD—Latham-Wharton silt loams, 15 to 25 percent slopes				
	45	Latham	6e	—
	35	Wharton	4e	—
LkB—Licking silt loam, 1 to 6 percent slopes				
	85	Licking	2e	—
LkC2—Licking silt loam, 6 to 15 percent slopes, eroded				
	85	Licking	4e	—
LkD2—Licking silt loam, 15 to 25 percent slopes, eroded				
	85	Licking	6e	—
LoA—Loudon silt loam, 0 to 2 percent slopes				
	85	Loudon	2w	—
LoB—Loudon silt loam, 2 to 6 percent slopes				
	85	Loudon	2e	—
LoC2—Loudon silt loam, 6 to 15 percent slopes, eroded				
	85	Loudon	3e	—
LwB—Lowell silt loam, 2 to 8 percent slopes				
	85	Lowell	2e	—
LwC2—Lowell silt loam, 8 to 15 percent slopes, eroded				
	85	Lowell	3e	—
McA—McGary variant silty clay loam, 0 to 3 percent slopes, rarely flooded				
	85	Mcgary variant	3w	—
Ne—Newark silt loam, frequently flooded				
	85	Newark	2w	—
NkB—Nicholson silt loam, 1 to 6 percent slopes				
	85	Nicholson	2e	—
No—Nolin silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Nolin, occasionally flooded	2w	—
OmB—Omulga silt loam, 1 to 6 percent slopes				
	85	Omulga	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
OmC2—Omulga silt loam, 6 to 15 percent slopes, eroded				
	85	Omulga	3e	—
OpD2—Opequon silty clay loam, 15 to 25 percent slopes, eroded				
	85	Opequon	6e	—
OpE2—Opequon silty clay loam, 25 to 40 percent slopes, eroded				
	80	Opequon	7e	—
OsF—Opequon silty clay loam, 40 to 60 percent slopes, very rocky				
	85	Opequon	7s	—
OtB—Otwell silt loam, 2 to 6 percent slopes				
	100	Otwell	2e	—
OwB—Otwell silt loam, 1 to 6 percent slopes				
	85	Otwell	2e	—
OwC2—Otwell silt loam, 6 to 15 percent slopes, eroded				
	85	Otwell	3e	—
OxD3—Opequon clay, 6 to 18 percent slopes, severely eroded				
	100	Opequon	4e	—
Pe—Peoga silt loam				
	85	Peoga	3w	—
Pq—Pits, quarry				
	100	Pits	—	—
PtB—Plainfield sand, 3 to 8 percent slopes				
	85	Plainfield	4s	—
RoC2—Rossmoyne silt loam, 6 to 12 percent slopes, eroded				
	90	Rossmoyne	3e	—
SaB—Sardinia silt loam, 1 to 6 percent slopes				
	85	Sardinia	2e	—
SbB—Sardinia silt loam, 2 to 6 percent slopes				
	95	Sardinia	2e	—
ScB—Sciotoville silt loam, 1 to 6 percent slopes				
	85	Sciotoville	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
SdB—Sciotoville silt loam, 1 to 8 percent slopes				
	98	Sciotoville	2e	—
ShE—Shelocta-Berks association, steep				
	55	Shelocta	6e	—
	35	Berks	6e	—
ShF—Shelocta-Berks association, very steep				
	55	Shelocta	7e	—
	35	Berks	7e	—
SkE—Shelocta-Brownsville association, steep				
	40	Shelocta	6e	—
	40	Brownsville	6e	—
SkF—Shelocta-Brownsville association, very steep				
	40	Shelocta	7e	—
	40	Brownsville	7e	—
SmD—Shelocta-Muse association, hilly				
	60	Shelocta	4e	—
	30	Muse	4e	—
SoE—Shelocta-Muse-Colyer association, steep				
	55	Shelocta	7e	—
	25	Muse	7e	—
	15	Colyer	7s	—
Sp—Skidmore gravelly loam, occasionally flooded				
	85	Skidmore	2w	—
Sr—Skidmore silt loam, occasionally flooded				
	85	Skidmore	3s	—
TkA—Tilsit silt loam, 0 to 3 percent slopes				
	85	Tilsit	2w	—
TrB—Trappist silt loam, 3 to 8 percent slopes				
	85	Trappist	2e	—
TrC—Trappist silt loam, 8 to 15 percent slopes				
	80	Trappist	3e	—
TrD2—Trappist silt loam, 15 to 25 percent slopes, eroded				
	80	Trappist	6e	—

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			Nonirrigated	Irrigated
TsF—Trappist-Shelocta association, steep				
	40	Trappist	7e	—
	35	Shelocta	7e	—
Ud—Udorthents, silty				
	100	Udorthents	6s	—
W—Water				
	100	Water	—	—
WgC—Wernock silt loam, 8 to 15 percent slopes				
	85	Wernock	3e	—
WmB—Williamsburg silt loam, 1 to 6 percent slopes				
	85	Williamsburg	2e	—
WmC2—Williamsburg silt loam, 6 to 15 percent slopes, eroded				
	85	Williamsburg	3e	—
WsS1A1—Westboro-Schaffer silt loams, 0 to 2 percent slopes				
	55	Westboro	2w	—
	30	Schaffer	2w	—

### Data Source Information

Soil Survey Area: Adams County, Ohio  
 Survey Area Data: Version 13, Sep 15, 2014