

## 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—Clermont County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AdC—Alluvial land, sloping				
	96	Alluvial land	—	—
AwA—Avonburg-Urban land complex, nearly level				
	60	Avonburg	—	—
	35	Urban land	—	—
BoD2—Bonnell silt loam, 15 to 25 percent slopes, eroded				
	85	Bonnell	6e	—
BoE—Bonnell silt loam, 25 to 40 percent slopes				
	85	Bonnell	6e	—
BoF—Bonnell silt loam, 40 to 60 percent slopes				
	85	Bonnell	7e	—
BrD3—Bonnell silty clay loam, 15 to 25 percent slopes, severely eroded				
	85	Bonnell	6e	—
CcB—Cincinnati silt loam, 2 to 6 percent slopes				
	95	Cincinnati	2e	—
CcB2—Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded				
	90	Cincinnati	2e	—
CcC2—Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded				
	90	Cincinnati	3e	—
CcD2—Cincinnati silt loam, 12 to 18 percent slopes, moderately eroded				
	95	Cincinnati	4e	—
CkD3—Cincinnati and Hickory soils, 12 to 25 percent slopes, severely eroded				
	60	Cincinnati	6e	—
	35	Hickory	6e	—

Land Capability Classification--Clermont County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Cle1A—Clermont silt loam, 0 to 1 percent slopes				
	90	Clermont	3w	—
CnC2—Cincinnati silt loam, 6 to 12 percent slopes, eroded				
	90	Cincinnati	3e	—
Cu—Cut and fill land				
	100	Cut and fill land	—	—
EaD2—Eden flaggy silty clay loam, 12 to 18 percent slopes, moderately eroded				
	85	Eden	4e	—
EaE—Eden flaggy silt loam, 25 to 40 percent slopes				
	85	Eden	7e	—
EaE2—Eden flaggy silty clay loam, 18 to 25 percent slopes, moderately eroded				
	85	Eden	6e	—
EaF—Eden flaggy silt loam, 40 to 70 percent slopes				
	90	Eden	7e	—
EaF2—Eden flaggy silty clay loam, 25 to 50 percent slopes, moderately eroded				
	90	Eden	7e	—
EbC2—Edenton loam, 6 to 12 percent slopes, moderately eroded				
	90	Edenton	3e	—
EbD2—Edenton loam, 12 to 18 percent slopes, moderately eroded				
	95	Edenton	4e	—
EbE2—Edenton loam, 18 to 25 percent slopes, moderately eroded				
	95	Edenton	6e	—
EbG2—Edenton loam, 25 to 50 percent slopes, moderately eroded				
	90	Edenton	7e	—
EcE3—Edenton clay loam, 12 to 25 percent slopes, severely eroded				
	90	Edenton	6e	—

Land Capability Classification--Clermont County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
EdG3—Edenton and Fairmount soils, 25 to 50 percent slopes, severely eroded				
	55	Edenton	7e	—
	45	Fairmount	7e	—
Ee—Eel silt loam				
	98	Eel	2w	—
EkB—Elkinsville silt loam, 2 to 6 percent slopes				
	85	Elkinsville	2e	—
FaE2—Fairmount very flaggy silty clay loam, 18 to 25 percent slopes, moderately eroded				
	95	Fairmount	6e	—
FaG2—Fairmount very flaggy silty clay loam, 25 to 50 percent slopes, moderately eroded				
	95	Fairmount	7e	—
FdD2—Faywood silt loam, 15 to 25 percent slopes, eroded				
	85	Faywood	6e	—
FnB—Fox silt loam, 2 to 6 percent slopes				
	100	Fox	2e	—
FnC2—Fox silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Fox	3e	—
FuB—Fox-Urban land complex, gently sloping				
	65	Fox	—	—
	35	Urban land	—	—
Gn—Genesee silt loam				
	100	Genesee	2w	—
GpB—Glenford silt loam, 2 to 6 percent slopes				
	100	Glenford	2e	—
GpC2—Glenford silt loam, 6 to 12 percent slopes, moderately eroded				
	95	Glenford	3e	—
GpE2—Glenford silt loam, 18 to 25 percent slopes, moderately eroded				
	100	Glenford	6e	—
Gr—Gravel pits				
	100	Gravel pits	—	—

Land Capability Classification--Clermont County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HkD2—Hickory loam, 12 to 18 percent slopes, moderately eroded				
	100	Hickory	4e	—
HkF2—Hickory loam, 18 to 35 percent slopes, moderately eroded				
	100	Hickory	6e	—
HIG3—Hickory clay loam, 25 to 50 percent slopes, severely eroded				
	95	Hickory	7e	—
Hu—Huntington silt loam				
	100	Huntington	2w	—
JeC2—Jessup silt loam, 8 to 15 percent slopes, eroded				
	85	Jessup	3e	—
JoR1A1—Jonesboro-Rossmoyne silt loams, 0 to 2 percent slopes				
	50	Jonesboro	2w	—
	35	Rossmoyne	2w	—
JoR1B1—Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes				
	50	Jonesboro	2e	—
	45	Rossmoyne	2e	—
JoR1B2—Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes, eroded				
	52	Jonesboro, eroded	2e	—
	42	Rossmoyne, eroded	2e	—
Lg—Lanier sandy loam				
	95	Lanier	2w	—
Ln—Lindside silt loam				
	92	Lindside	2w	—
Mb—Mahalasville silty clay loam				
	100	Mahalasville	2w	—
MdB—Markland silt loam, 2 to 6 percent slopes				
	100	Markland	3e	—
MgA—McGary silt loam, 0 to 2 percent slopes				
	100	Mcgary	3w	—
Mh—Medway silt loam, overwash				
	97	Medway	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ne--Newark silt loam, 0 to 2 percent slopes, occasionally flooded				
	90	Newark, occasionally flooded	2w	—
No--Nolin silt loam, occasionally flooded				
	90	Nolin	2w	—
OcA--Ockley silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes				
	85	Ockley	1	—
OcB--Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes				
	85	Ockley	2e	—
OdA--Ockley-Urban land complex, nearly level				
	65	Ockley	—	—
	35	Urban land	—	—
PbD2--Pate silty clay, 15 to 25 percent slopes, eroded				
	85	Pate	6e	—
Rh--Riverwash				
	100	Riverwash	—	—
RkD2--Rodman and Casco loams, 12 to 18 percent slopes, moderately eroded				
	55	Rodman	6s	—
	45	Casco	6e	—
RkE2--Rodman and Casco loams, 18 to 25 percent slopes, moderately eroded				
	55	Rodman	7s	—
	45	Casco	7e	—
Rn--Ross silt loam				
	100	Ross	2w	—
RpC2--Rossmoyne silt loam, 6 to 12 percent slopes, moderately eroded				
	92	Rossmoyne	3e	—
RsC3--Rossmoyne silty clay loam, 6 to 12 percent slopes, severely eroded				
	95	Rossmoyne	4e	—
RtB--Rossmoyne-Urban land complex, gently sloping				
	65	Rossmoyne	—	—
	35	Urban land	—	—

Land Capability Classification--Clermont County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
RtC—Rossmoyne-Urban land complex, sloping				
	60	Rossmoyne	—	—
	35	Urban land	—	—
RwC3—Rossmoyne-Bonnell complex, 6 to 12 percent slopes, severely eroded				
	50	Rossmoyne	4e	—
	35	Bonnell	4e	—
SaA—Sardinia silt loam, 0 to 2 percent slopes				
	97	Sardinia	2w	—
SaB—Sardinia silt loam, 2 to 6 percent slopes				
	95	Sardinia	2e	—
ScA—Sciotoville silt loam, 0 to 2 percent slopes				
	85	Sciotoville	2w	—
SeC2—Sees silty clay loam, 4 to 12 percent slopes, moderately eroded				
	100	Sees	3e	—
SeD2—Sees silty clay loam, 12 to 18 percent slopes, moderately eroded				
	100	Sees	4e	—
Sg—Shoals silt loam, frequently flooded				
	85	Shoals	2w	—
Sh—Shoals silt loam				
	95	Shoals	2w	—
St—Stonelick sandy loam				
	100	Stonelick	2w	—
Ud—Udorthents				
	100	Udorthents	—	—
W—Water				
	100	Water	—	—
WsS1A1—Westboro-Schaffer silt loams, 0 to 2 percent slopes				
	55	Westboro	2w	—
	30	Schaffer	2w	—
WsS1B1—Westboro-Schaffer silt loams, 2 to 4 percent slopes				
	55	Westboro	2w	—
	30	Schaffer	2w	—

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			Nonirrigated	Irrigated
WvB—Williamsburg and Martinsville silt loams, 2 to 6 percent slopes				
	55	Williamsburg	2e	—
	45	Martinsville	2e	—
WvC2—Williamsburg and Martinsville silt loams, 6 to 12 percent slopes, moderately eroded				
	55	Williamsburg	3e	—
	45	Martinsville	3e	—
WvD2—Williamsburg and Martinsville silt loams, 12 to 18 percent slopes, moderately eroded				
	55	Williamsburg	4e	—
	45	Martinsville	4e	—

### Data Source Information

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