

## 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—Brown County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Ag—Algiers silt loam, frequently flooded				
	85	Algiers	2w	—
Ah—Algiers silt loam				
	95	Algiers	2w	—
AsB—Atlas silt loam, 2 to 6 percent slopes				
	95	Atlas	2e	—
AsB2—Atlas silt loam, 2 to 6 percent slopes, moderately eroded				
	100	Atlas	2e	—
AsC2—Atlas silt loam, 6 to 12 percent slopes, moderately eroded				
	100	Atlas	3e	—
AtC2—Atlas silty clay loam, 6 to 12 percent slopes, eroded				
	85	Atlas	3e	—
Bln3A—Blanchester silty clay loam, 0 to 1 percent slopes				
	90	Blanchester	3w	—
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	—
ChF—Chili loam, 35 to 70 percent slopes				
	90	Chili	7e	—
Cle1A—Clermont silt loam, 0 to 1 percent slopes				
	90	Clermont	3w	—

Land Capability Classification--Brown County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CnC2—Cincinnati silt loam, 6 to 12 percent slopes, eroded				
	90	Cincinnati	3e	—
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	—
EbE2—Eden flaggy silty clay loam, 25 to 40 percent slopes, eroded				
	85	Eden	7e	—
EbF2—Eden flaggy silty clay loam, 40 to 70 percent slopes, eroded				
	85	Eden	7e	—
EdG2—Edenton loam, 25 to 50 percent slopes, moderately eroded				
	90	Edenton	7e	—
EkB—Elkinsville silt loam, 2 to 6 percent slopes				
	85	Elkinsville	2e	—
EkC2—Elkinsville silt loam, 6 to 12 percent slopes, eroded				
	80	Elkinsville	3e	—
FbD2—Faywood silty clay loam, 15 to 25 percent slopes, eroded				
	85	Faywood	4e	—
FdD2—Faywood silt loam, 15 to 25 percent slopes, eroded				
	85	Faywood	6e	—
FeC2—Faywood-Lowell silt loams, 8 to 15 percent slopes, eroded				
	50	Faywood	3e	—
	35	Lowell	3e	—
FhB—Fitchville silt loam, 2 to 6 percent slopes				
	95	Fitchville	2e	—
Ge—Genesee silt loam, occasionally flooded				
	90	Genesee	2w	—
Gn—Gessie loam, frequently flooded				
	90	Gessie	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HyC3—Hickory clay loam, 6 to 12 percent slopes, severely eroded				
	100	Hickory	4e	—
JeC2—Jessup silt loam, 8 to 15 percent slopes, eroded				
	85	Jessup	3e	—
JeD2—Jessup silt loam, 15 to 25 percent slopes, eroded				
	85	Jessup	4e	—
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	—
JrC2—Jonesboro-Rossmoyne silt loams, 6 to 12 percent slopes, eroded				
	65	Jonesboro	3e	—
	20	Rossmoyne	3e	—
Ju—Jules silt loam, frequently flooded				
	95	Jules	2w	—
LnB—Loudon silt loam, 2 to 6 percent slopes				
	100	Loudon	2e	—
LnC2—Loudon silt loam, 6 to 12 percent slopes, eroded				
	90	Loudon	3e	—
LoB2—Loudon silt loam, 3 to 8 percent slopes, eroded				
	85	Loudon	2e	—
LwB2—Lowell silt loam, 3 to 8 percent slopes, eroded				
	85	Lowell	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MvD2--Morrisville silty clay loam, 12 to 18 percent slopes, eroded				
	80	Morrisville	4e	—
No--Nolin silt loam, occasionally flooded				
	90	Nolin	2w	—
PaC2--Pate silty clay, 8 to 15 percent slopes, eroded				
	85	Pate	3e	—
PaD2--Pate silty clay, 15 to 25 percent slopes, eroded				
	85	Pate	6e	—
PaE2--Pate silty clay, 25 to 35 percent slopes, eroded				
	85	Pate	7e	—
RpC2--Rossmoyne silt loam, 6 to 12 percent slopes, eroded				
	85	Rossmoyne	3e	—
RrC3--Rossmoyne silty clay loam, 6 to 12 percent slopes, severely eroded				
	100	Rossmoyne	4e	—
RwC3--Rossmoyne-Bonnell complex, 6 to 12 percent slopes, severely eroded				
	50	Rossmoyne	4e	—
	35	Bonnell	4e	—
SaB--Sardinia silt loam, 1 to 6 percent slopes				
	85	Sardinia	2e	—
SbB--Sardinia silt loam, 2 to 6 percent slopes				
	95	Sardinia	2e	—
ScA--Sciotoville silt loam, 0 to 2 percent slopes				
	85	Sciotoville	2w	—
SgA--Shoals silt loam, 0 to 1 percent slopes, occasionally flooded				
	90	Shoals	2w	—
Sh--Shoals silt loam, frequently flooded				
	85	Shoals	2w	—
SoA--Sloan silt loam, sandy substratum, 0 to 1 percent slopes, occasionally flooded				
	90	Sloan	3w	—

Land Capability Classification--Brown County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
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	—
WvB—Williamsburg silt loam, 2 to 6 percent slopes				
	90	Williamsburg	2e	—

### Data Source Information

Soil Survey Area: Brown County, Ohio  
 Survey Area Data: Version 14, Sep 15, 2014