

## 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—Allen County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AkA—Alvada loam, 0 to 1 percent slopes				
	90	Alvada	2w	—
AmA—Alvada silty clay loam, 0 to 1 percent slopes				
	90	Alvada	2w	—
ArB—Arkport loamy fine sand, 2 to 6 percent slopes				
	100	Arkport	2e	—
AuA—Aurand loam, 0 to 3 percent slopes				
	85	Aurand	2w	—
AxA—Aurand silt loam, 0 to 3 percent slopes				
	90	Aurand	2w	—
Ble1A1—Blount silt loam, end moraine, 0 to 2 percent slopes				
	85	Blount, end moraine	2w	—
Ble1B1—Blount silt loam, end moraine, 2 to 4 percent slopes				
	85	Blount, end moraine	2e	—
Blg1A1—Blount silt loam, ground moraine, 0 to 2 percent slopes				
	85	Blount, ground moraine	2w	—
Blg1B1—Blount silt loam, ground moraine, 2 to 4 percent slopes				
	85	Blount, ground moraine	2e	—
BrA—Blount-Jenera complex, 0 to 3 percent slopes				
	55	Blount	2w	—
	40	Jenera	1	—
BsA—Blount-Urban land complex, 0 to 2 percent slopes				
	50	Blount	—	—
	35	Urban land	—	—

Land Capability Classification--Allen County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CyA—Cygnet loam, 0 to 3 percent slopes				
	90	Cygnet	1	—
DaA—Darroch loam, 0 to 2 percent slopes				
	90	Darroch	2w	—
EmB—Eldean silt loam, 1 to 4 percent slopes				
	95	Eldean	2e	—
FdA—Flatrock silt loam, limestone substratum, 0 to 2 percent slopes, occasionally flooded				
	95	Flatrock	2w	—
FnB—Fox loam, 2 to 6 percent slopes				
	90	Fox	2e	—
FnD2—Fox loam, 12 to 18 percent slopes, eroded				
	100	Fox	4e	—
FoA—Fox silt loam, 0 to 2 percent slopes				
	100	Fox	2s	—
FpC2—Fox-Lybrand complex, 6 to 12 percent slopes, eroded				
	50	Fox	3e	—
	40	Lybrand	4e	—
GaA—Gallman loam, 0 to 2 percent slopes				
	100	Gallman	1	—
GaB—Gallman loam, 2 to 6 percent slopes				
	95	Gallman	2e	—
GaC—Gallman loam, 6 to 12 percent slopes				
	100	Gallman	3e	—
GbA—Gallman silt loam, 0 to 2 percent slopes				
	100	Gallman	1	—
GkA—Glynwood loam, 0 to 2 percent slopes				
	100	Glynwood	1	—
GkB—Glynwood loam, 2 to 6 percent slopes				
	85	Glynwood	2e	—
GuB—Glynwood-Urban land complex, 2 to 6 percent slopes				
	50	Glynwood	—	—
	45	Urban land	—	—

Land Capability Classification--Allen County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Gwd1C1—Glynwood silt loam, 6 to 12 percent slopes				
	85	Glynwood	3e	—
Gwd5C2—Glynwood clay loam, 6 to 12 percent slopes, eroded				
	85	Glynwood	4e	—
Gwe1B1—Glynwood silt loam, end moraine, 2 to 6 percent slopes				
	85	Glynwood, end moraine	2e	—
Gwe5B2—Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded				
	85	Glynwood, end moraine	2e	—
Gwg1B1—Glynwood silt loam, ground moraine, 2 to 6 percent slopes				
	85	Glynwood, ground moraine	2e	—
Gwg1C1—Glynwood silt loam, ground moraine, 6 to 12 percent slopes				
	85	Glynwood	3e	—
Gwg5B2—Glynwood clay loam, ground moraine, 2 to 6 percent slopes, eroded				
	85	Glynwood, ground moraine	2e	—
Gwg5C2—Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded				
	85	Glynwood	3e	—
HcA—Hoytville silty clay loam, 0 to 1 percent slopes				
	91	Hoytville	2w	—
HgA—Harrod silt loam, 0 to 1 percent slopes, frequently flooded				
	90	Harrod	3w	—
HpA—Houcktown sandy loam, 0 to 2 percent slopes				
	95	Houcktown	1	—
HpB—Houcktown sandy loam, 2 to 4 percent slopes				
	95	Houcktown	2e	—
HrA—Houcktown loam, 0 to 2 percent slopes				
	95	Houcktown	1	—
HrB—Houcktown loam, 2 to 6 percent slopes				
	95	Houcktown	2e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
HsA—Houcktown silt loam, 0 to 2 percent slopes				
	95	Houcktown	1	—
HsB—Houcktown silt loam, 2 to 4 percent slopes				
	100	Houcktown	2e	—
HtA—Hoytville silty clay, 0 to 1 percent slopes				
	92	Hoytville	2w	—
HuC2—Houcktown-Glynwood complex, 6 to 12 percent slopes, eroded				
	65	Houcktown	3e	—
	25	Glynwood	4e	—
KnA—Knoxdale silt loam, 0 to 2 percent slopes, occasionally flooded				
	90	Knoxdale	2w	—
LbF—Lybrand silt loam, 20 to 55 percent slopes				
	100	Lybrand	7e	—
LcD2—Lybrand silty clay loam, 12 to 20 percent slopes, eroded				
	90	Lybrand	4e	—
MbA—Medway silt loam, 0 to 2 percent slopes, occasionally flooded				
	95	Medway	2w	—
MmA—Millsdale silty clay loam, 0 to 1 percent slopes				
	90	Millsdale	3w	—
MnA—Milton loam, 0 to 2 percent slopes				
	95	Milton	2s	—
NpA—Nappanee clay loam, 0 to 2 percent slopes				
	95	Nappanee	3w	—
PaA—Patton silty clay loam, loamy substratum, 0 to 1 percent slopes				
	100	Patton	2w	—
PmA—Pewamo silty clay loam, 0 to 1 percent slopes				
	95	Pewamo	2w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
PoA—Pewamo-Urban land complex, 0 to 2 percent slopes				
	55	Pewamo	—	—
	35	Urban land	—	—
Pp—Pits, gravel				
	95	Pits, gravel	—	—
Ps—Pits, lime				
	95	Pits, lime	—	—
Pt—Pits, quarry				
	95	Pits, quarry	—	—
RdA—Rensselaer loam, 0 to 1 percent slopes				
	90	Rensselaer	2w	—
ReA—Rensselaer loam, till substratum, 0 to 1 percent slopes				
	90	Rensselaer	2w	—
RgA—Rensselaer silt loam, 0 to 1 percent slopes				
	90	Rensselaer	2w	—
RoA—Roundhead muck, loamy substratum, 0 to 1 percent slopes				
	95	Roundhead	3w	—
SbA—Saranac silty clay loam, 0 to 1 percent slopes, rarely flooded				
	90	Saranac	3w	—
ScA—Saranac silty clay loam, till substratum, 0 to 1 percent slopes, frequently flooded				
	95	Saranac	3w	—
SdB—Seward loamy fine sand, deep phase, 0 to 5 percent slopes				
	100	Seward	2e	—
SfB—Shawtown loam, 2 to 6 percent slopes				
	93	Shawtown	2e	—
SgC2—Shinrock clay loam, 6 to 12 percent slopes, eroded				
	95	Shinrock	3e	—
ShA—Shoals silt loam, 0 to 2 percent slopes, occasionally flooded				
	85	Shoals	2w	—

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			Nonirrigated	Irrigated
SkA—Shoals silt loam, till substratum, 0 to 1 percent slopes, occasionally flooded				
	95	Shoals	2w	—
SnA—Sleeth silt loam, 0 to 2 percent slopes				
	90	Sleeth	2w	—
SoA—Sloan silty clay loam, 0 to 1 percent slopes, occasionally flooded				
	90	Sloan	3w	—
SrA—Sloan silty clay loam, till substratum, 0 to 1 percent slopes, frequently flooded				
	90	Sloan	3w	—
ThB—Thackery sandy loam, sandy substratum, 1 to 3 percent slopes				
	95	Thackery	1	—
TkA—Thackery loam, sandy substratum, 0 to 2 percent slopes				
	100	Thackery	1	—
TnA—Tiderishi loam, 0 to 2 percent slopes				
	90	Tiderishi	2w	—
UdA—Udorthents, loamy, 0 to 2 percent slopes				
	82	Udorthents	—	—
UdD—Udorthents, loamy, 12 to 25 percent slopes				
	90	Udorthents	—	—
UrB—Urban land, undulating				
	100	Urban land	—	—
W—Water				
	100	Water	—	—
WdA—Westland clay loam, 0 to 1 percent slopes				
	90	Westland	2w	—
WeA—Westland-Rensselaer complex, 0 to 1 percent slopes				
	50	Westland	2w	—
	40	Rensselaer	2w	—

## Data Source Information

Soil Survey Area: Allen County, Ohio  
Survey Area Data: Version 14, Sep 18, 2014