

## 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—Harrison County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
AaB—Aaron silt loam, 2 to 6 percent slopes				
	85	Aaron	2e	—
AbC2—Aaron silty clay loam, 6 to 15 percent slopes, eroded				
	85	Aaron	3e	—
AcC—Aaron silt loam, 8 to 15 percent slopes				
	85	Aaron	3e	—
BeC—Berks channery silt loam, 8 to 15 percent slopes				
	85	Berks	3e	—
BkC—Berks channery silt loam, 6 to 15 percent slopes				
	85	Berks	3e	—
BkD—Berks channery silt loam, 15 to 25 percent slopes				
	85	Berks	4e	—
BkE—Berks channery silt loam, 25 to 35 percent slopes				
	85	Berks	6e	—
BkF—Berks channery silt loam, 35 to 70 percent slopes				
	85	Berks	7e	—
BmC—Berks-Aaron complex, 6 to 15 percent slopes				
	60	Berks	3e	—
	25	Aaron	3e	—
BnC—Berks-Guernsey complex, 8 to 15 percent slopes				
	55	Berks	3e	—
	30	Guernsey	3e	—
BnD—Berks-Guernsey complex, 15 to 25 percent slopes				
	55	Berks	4e	—
	30	Guernsey	4e	—

Land Capability Classification--Harrison County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
BnE--Berks-Guernsey complex, 25 to 40 percent slopes				
	50	Berks	6e	—
	35	Guernsey	6e	—
BpB--Bethesda channery silty clay loam, 0 to 8 percent slopes				
	85	Bethesda	6s	—
BpD--Bethesda channery silty clay loam, 8 to 25 percent slopes				
	85	Bethesda	6s	—
BpF--Bethesda channery silty clay loam, 25 to 70 percent slopes				
	85	Bethesda	7e	—
BsD--Brookside silty clay loam, 15 to 25 percent slopes				
	80	Brookside	4e	—
BsE--Brookside silty clay loam, 25 to 40 percent slopes				
	80	Brookside	6e	—
Ca--Canadice silty clay loam				
	85	Canadice	4w	—
CcA--Caneadea silty clay loam, 0 to 2 percent slopes				
	85	Caneadea	3w	—
CnB--Coshocton silt loam, 2 to 6 percent slopes				
	85	Coshocton	2e	—
CnC--Coshocton silt loam, 6 to 15 percent slopes				
	85	Coshocton	3e	—
CnD--Coshocton silt loam, 15 to 25 percent slopes				
	85	Coshocton	4e	—
CrD--Coshocton-Guernsey silt loams, 15 to 25 percent slopes				
	60	Coshocton	4e	—
	30	Guernsey	4e	—

Land Capability Classification--Harrison County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
CrE—Coshocton-Guernsey silt loams, 25 to 40 percent slopes				
	60	Coshocton	6e	—
	30	Guernsey	6e	—
DbC—DeKalb channery loam, 8 to 15 percent slopes				
	85	DeKalb	3e	—
DkC—DeKalb channery loam, 6 to 15 percent slopes				
	85	DeKalb	3e	—
Dm—Dumps, mine				
	90	Dumps	—	—
EaC2—Elba silty clay loam, 8 to 15 percent slopes, eroded				
	100	Elba	3e	—
FaB—Fairpoint silty clay loam, 0 to 8 percent slopes				
	85	Fairpoint	3s	—
FaD—Fairpoint silty clay loam, 8 to 25 percent slopes				
	90	Fairpoint	4s	—
FaE—Fairpoint silty clay loam, 25 to 40 percent slopes				
	90	Fairpoint	6e	—
FbB—Fairpoint gravelly clay loam, 0 to 8 percent slopes				
	80	Fairpoint	6s	—
FcA—Fitchville silt loam, 0 to 3 percent slopes				
	85	Fitchville	2w	—
FcB—Fitchville silt loam, 3 to 8 percent slopes				
	85	Fitchville	2e	—
GeC—Germano fine sandy loam, 6 to 15 percent slopes				
	85	Germano	3e	—
GeD—Germano fine sandy loam, 15 to 25 percent slopes				
	85	Germano	4e	—
GmC—Gilpin silt loam, 8 to 15 percent slopes				
	85	Gilpin	3e	—

Land Capability Classification--Harrison County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GnB—Gilpin silt loam, 3 to 8 percent slopes				
	85	Gilpin	2e	—
GnC—Gilpin silt loam, 8 to 15 percent slopes				
	80	Gilpin	3e	—
GnD—Gilpin silt loam, 15 to 25 percent slopes				
	85	Gilpin	4e	—
GoC—Gilpin-Coshocton complex, 6 to 15 percent slopes				
	55	Gilpin	3e	—
	30	Coshocton	3e	—
GoD—Gilpin-Coshocton complex, 15 to 25 percent slopes				
	55	Gilpin	4e	—
	30	Coshocton	4e	—
GpC—Gilpin-Lowell complex, 6 to 15 percent slopes				
	55	Gilpin	3e	—
	30	Lowell	3e	—
GpD—Gilpin-Lowell silt loams, 15 to 25 percent slopes				
	55	Gilpin	4e	—
	35	Lowell	4e	—
GsB—Glenford silt loam, 3 to 8 percent slopes				
	85	Glenford	2e	—
GsC—Glenford silt loam, 8 to 15 percent slopes				
	85	Glenford	3e	—
GtC—Guernsey silt loam, 6 to 15 percent slopes				
	85	Guernsey	3e	—
GuD2—Guernsey silty clay loam, 15 to 25 percent slopes, eroded				
	85	Guernsey	4e	—
GuE2—Guernsey silty clay loam, 25 to 40 percent slopes, eroded				
	85	Guernsey	6e	—
GwC—Guernsey silt loam, 8 to 15 percent slopes				
	80	Guernsey	3e	—

Land Capability Classification--Harrison County, Ohio				
Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
GwD2--Guernsey silt loam, 15 to 25 percent slopes, eroded				
	80	Guernsey	4e	—
HaF--Hazleton channery loam, 25 to 70 percent slopes, stony				
	85	Hazleton	7s	—
HeD--Hazleton channery sandy loam, 15 to 25 percent slopes				
	85	Hazleton	4e	—
HeE--Hazleton channery sandy loam, 25 to 40 percent slopes				
	85	Hazleton	6e	—
HeF--Hazleton channery sandy loam, 40 to 70 percent slopes				
	85	Hazleton	7e	—
HgD--Hazleton channery loam, 15 to 25 percent slopes				
	85	Hazleton	4e	—
KeB--Keene silt loam, 3 to 8 percent slopes				
	90	Keene	2e	—
LnC--Lowell silt loam, 8 to 15 percent slopes				
	85	Lowell	3e	—
LoD2--Lowell silty clay loam, 15 to 25 percent slopes, eroded				
	80	Lowell	4e	—
LoE2--Lowell silty clay loam, 25 to 40 percent slopes, eroded				
	85	Lowell	6e	—
LrE--Lowell-Westmoreland silt loams, 25 to 35 percent slopes				
	45	Lowell	6e	—
	30	Westmoreland	6e	—
LrF--Lowell-Westmoreland silt loams, 35 to 70 percent slopes				
	45	Lowell	7e	—
	30	Westmoreland	7e	—
Me--Melvin silt loam, ponded				
	85	Melvin	5w	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
MnB—Morristown silty clay loam, 0 to 8 percent slopes				
	85	Morristown	3s	—
MnD—Morristown silty clay loam, 8 to 25 percent slopes				
	90	Morristown	4s	—
MoB—Morristown channery silty clay loam, 0 to 8 percent slopes, stony				
	85	Morristown	6s	—
MoD—Morristown channery silty clay loam, 8 to 25 percent slopes, stony				
	85	Morristown	6s	—
MoE—Morristown channery silty clay loam, 25 to 40 percent slopes, stony				
	85	Morristown	7e	—
MpC—Morristown silty clay loam, 3 to 15 percent slopes				
	90	Morristown	4s	—
MrF—Morristown channery silt loam, 25 to 70 percent slopes, bouldery				
	85	Morristown	7e	—
Ne—Newark silt loam, frequently flooded				
	85	Newark	2w	—
No—Nolin silt loam, 0 to 3 percent slopes, occasionally flooded				
	85	Nolin, occasionally flooded	2w	—
Np—Nolin silt loam, 0 to 3 percent slopes, frequently flooded				
	90	Nolin	2w	—
Omm1B1—Omulga silt loam, mixed substratum, 2 to 6 percent slopes				
	85	Omulga, mixed mineralogy substratum phase	2e	—
Omm1C1—Omulga silt loam, mixed substratum, 6 to 12 percent slopes				
	85	Omulga, mixed mineralogy substratum phase	3e	—
Or—Orrville silt loam, occasionally flooded				
	90	Orrville	2w	—
OsB—Oshtemo loam, 2 to 6 percent slopes				
	85	Oshtemo	3s	3e

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
Pe—Peoga silt loam, rarely flooded				
	85	Peoga	3w	—
RcB—Richland silt loam, 2 to 6 percent slopes				
	85	Richland	2e	—
RcC—Richland silt loam, 6 to 15 percent slopes				
	85	Richland	3e	—
RgD—Rigley loam, 15 to 25 percent slopes				
	85	Rigley	4e	—
RgE—Rigley loam, 25 to 40 percent slopes				
	85	Rigley	7e	—
Tg—Tioga silt loam, occasionally flooded				
	90	Tioga	1	—
Ua—Udorthents				
	100	Udorthents	—	—
Uc—Udorthents-Pits complex				
	60	Udorthents	—	—
UpC2—Upshur silty clay loam, 6 to 15 percent slopes, eroded				
	85	Upshur	4e	—
UpD2—Upshur silty clay loam, 15 to 25 percent slopes, eroded				
	85	Upshur	6e	—
W—Water				
	100	Water	—	—
WhC—Westmoreland silt loam, 8 to 15 percent slopes				
	80	Westmoreland	3e	—
WhD—Westmoreland silt loam, 15 to 25 percent slopes				
	80	Westmoreland	4e	—
WhE—Westmoreland silt loam, 25 to 35 percent slopes				
	80	Westmoreland	6e	—
WmE—Westmoreland-Coshocton complex, 25 to 40 percent slopes				
	60	Westmoreland	6e	—
	30	Coshocton	6e	—

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Map unit symbol and name	Pct. of map unit	Component name	Land Capability Subclass	
			Nonirrigated	Irrigated
WnE--Westmoreland-Dekalb complex, 25 to 40 percent slopes				
	55	Westmoreland	6e	—
	30	Dekalb	6e	—
WnF--Westmoreland-Dekalb complex, 40 to 70 percent slopes				
	55	Westmoreland	7e	—
	30	Dekalb	7e	—
WoF--Westmoreland-Dekalb complex, 25 to 70 percent slopes, extremely bouldery				
	50	Westmoreland	7s	—
	40	Dekalb	7s	—
WpC--Westmoreland silt loam, 8 to 15 percent slopes				
	85	Westmoreland	3e	—
WrD--Westmoreland-Guernsey silt loams, 15 to 25 percent slopes				
	60	Westmoreland	4e	—
	25	Guernsey	4e	—
WtD--Westmoreland-Coshocton silt loams, 15 to 25 percent slopes				
	60	Westmoreland	4e	—
	25	Coshocton	4e	—

### Data Source Information

Soil Survey Area: Harrison County, Ohio  
 Survey Area Data: Version 12, Sep 18, 2014