

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—Morgan County, Ohio | | | | |
|---|------------------|----------------|--------------------------|-----------|
| Map unit symbol and name | Pct. of map unit | Component name | Land Capability Subclass | |
| | | | Nonirrigated | Irrigated |
| AaC2—Aaron silt loam, 6 to 12 percent slopes, eroded | | | | |
| | 85 | Aaron | 3e | — |
| AgC2—Aaron-Gilpin complex, 6 to 12 percent slopes, eroded | | | | |
| | 45 | Aaron | 3e | — |
| | 35 | Gilpin | 3e | — |
| BaF—Barkcamp channery sandy loam, 20 to 70 percent slopes | | | | |
| | 85 | Barkcamp | 8s | — |
| BdF—Berks channery silt loam, 35 to 70 percent slopes | | | | |
| | 85 | Berks | 7e | — |
| BeF—Berks-Westmoreland complex, 35 to 70 percent slopes | | | | |
| | 50 | Berks | 7e | — |
| | 30 | Westmoreland | 7e | — |
| BfF—Berks-Westmoreland complex, 40 to 70 percent slopes | | | | |
| | 40 | Berks | 7e | — |
| | 35 | Westmoreland | 7e | — |
| BkF—Bethesda channery loam, 20 to 70 percent slopes | | | | |
| | 85 | Bethesda | 7e | — |
| BrD—Brookside silty clay loam, 12 to 20 percent slopes | | | | |
| | 85 | Brookside | 4e | — |
| BrE—Brookside silty clay loam, 20 to 35 percent slopes | | | | |
| | 85 | Brookside | 6e | — |
| BtE—Brookside silty clay loam, 15 to 40 percent slopes | | | | |
| | 75 | Brookside | 6e | — |

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|---|------------------|----------------|--------------------------|-----------|
| Map unit symbol and name | Pct. of map unit | Component name | Land Capability Subclass | |
| | | | Nonirrigated | Irrigated |
| CcB—Chavies loam, 2 to 6 percent slopes | | | | |
| | 80 | Chavies | 2e | — |
| CeB—Chavies loam, 0 to 6 percent slopes | | | | |
| | 85 | Chavies | 2e | — |
| CgC—Claysville-Guernsey complex, 8 to 15 percent slopes | | | | |
| | 45 | Claysville | 3w | — |
| | 40 | Guernsey | 3e | — |
| Chg1AF—Chagrin silt loam, 0 to 3 percent slopes, frequently flooded | | | | |
| | 95 | Chagrin | 2w | — |
| CoB—Conotton gravelly loam, 0 to 6 percent slopes | | | | |
| | 85 | Conotton | 3s | — |
| CoC2—Conotton gravelly loam, 6 to 12 percent slopes, eroded | | | | |
| | 80 | Conotton | 4e | — |
| Ds—Dumps, mine | | | | |
| | 100 | Dumps, mine | 8s | — |
| EbE2—Elba silty clay loam, 20 to 35 percent slopes, eroded | | | | |
| | 85 | Elba | 6e | — |
| EuA—Euclid silt loam, rarely flooded | | | | |
| | 85 | Euclid | 2w | — |
| GdC2—Gilpin silt loam, 8 to 15 percent slopes | | | | |
| | 80 | Gilpin | 3e | — |
| GeE2—Gilpin-Upshur complex, 25 to 40 percent slopes, eroded | | | | |
| | 40 | Gilpin | 6e | — |
| | 35 | Upshur | 7e | — |
| GhD2—Gilpin-Upshur complex, 12 to 20 percent slopes, eroded | | | | |
| | 45 | Gilpin | 4e | — |
| | 40 | Upshur | 6e | — |
| GhE2—Gilpin-Upshur complex, 20 to 35 percent slopes, eroded | | | | |
| | 45 | Gilpin | 6e | — |
| | 40 | Upshur | 7e | — |

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| Map unit symbol and name | Pct. of map unit | Component name | Land Capability Subclass | |
| | | | Nonirrigated | Irrigated |
| GhF—Gilpin-Upshur complex, 35 to 70 percent slopes | | | | |
| | 50 | Gilpin | 7e | — |
| | 30 | Upshur | 7e | — |
| GnB—Glenford silt loam, 3 to 8 percent slopes | | | | |
| | 85 | Glenford | 2e | — |
| GsD2—Guernsey-Upshur complex, 12 to 20 percent slopes, eroded | | | | |
| | 45 | Guernsey | 4e | — |
| | 30 | Upshur | 6e | — |
| GtC2—Guernsey-Upshur silty clay loams, 6 to 15 percent slopes, eroded | | | | |
| | 50 | Guernsey | 3e | — |
| | 30 | Upshur | 4e | — |
| GtD2—Guernsey-Upshur silty clay loams, 15 to 25 percent slopes, eroded | | | | |
| | 45 | Guernsey | 4e | — |
| | 30 | Upshur | 6e | — |
| Hay1AO—Haymond silt loam, 0 to 3 percent slopes, occasionally flooded | | | | |
| | 88 | Haymond | 2w | — |
| KnL1AF—Kinnick-Lindside silt loams, 0 to 3 percent slopes, frequently flooded | | | | |
| | 70 | Kinnick | 2w | — |
| | 20 | Lindside | 2w | — |
| Lck1BO—Licking silt loam, 1 to 4 percent slopes, occasionally flooded | | | | |
| | 85 | Licking | 2e | — |
| Ld—Lobdell silt loam, channery substratum, occasionally flooded | | | | |
| | 85 | Lobdell | 2w | — |
| Le—Lobdell loam, channery substratum, occasionally flooded | | | | |
| | 80 | Lobdell | 2w | — |
| Lic1B1—Licking silt loam, 2 to 6 percent slopes | | | | |
| | 85 | Licking | 2e | — |
| Lic1C2—Licking silt loam, 6 to 12 percent slopes, eroded | | | | |
| | 85 | Licking | 4e | — |

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|--|------------------|----------------|--------------------------|-----------|
| Map unit symbol and name | Pct. of map unit | Component name | Land Capability Subclass | |
| | | | Nonirrigated | Irrigated |
| LoD2—Lowell silt loam, 15 to 25 percent slopes | | | | |
| | 85 | Lowell | 4e | — |
| LpD2—Lowell silt loam, 15 to 25 percent slopes, eroded | | | | |
| | 80 | Lowell | 4e | — |
| LrE2—Lowell-Gilpin complex, 20 to 35 percent slopes, eroded | | | | |
| | 60 | Lowell | 6e | — |
| | 25 | Gilpin | 6e | — |
| LrF—Lowell-Gilpin complex, 35 to 70 percent slopes | | | | |
| | 45 | Lowell | 7e | — |
| | 40 | Gilpin | 7e | — |
| LsE2—Lowell-Gilpin complex, 25 to 40 percent slopes, eroded | | | | |
| | 45 | Lowell | 7e | — |
| | 35 | Gilpin | 7e | — |
| LsF—Lowell-Gilpin complex, 40 to 70 percent slopes | | | | |
| | 45 | Lowell | 7e | — |
| | 30 | Gilpin | 7e | — |
| MaD2—Markland silty clay loam, 12 to 25 percent slopes, eroded | | | | |
| | 85 | Markland | 6e | — |
| Md—Melvin silt loam, ponded | | | | |
| | 85 | Melvin | 5w | — |
| Mel1AF—Melvin silt loam, 0 to 2 percent slopes, frequently flooded | | | | |
| | 90 | Melvin | 3w | — |
| MnB—Morristown silty clay loam, 0 to 6 percent slopes | | | | |
| | 100 | Morristown | 3s | — |
| MnD—Morristown silty clay loam, 6 to 20 percent slopes | | | | |
| | 100 | Morristown | 4s | — |
| MnE—Morristown silty clay loam, 20 to 35 percent slopes | | | | |
| | 100 | Morristown | 6e | — |

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|--|------------------|-----------------------------|--------------------------|-----------|
| Map unit symbol and name | Pct. of map unit | Component name | Land Capability Subclass | |
| | | | Nonirrigated | Irrigated |
| MoB—Morristown silty clay loam, 1 to 8 percent slopes | | | | |
| | 80 | Morristown | 3s | — |
| MoD—Morristown silty clay loam, 15 to 25 percent slopes | | | | |
| | 80 | Morristown | 4s | — |
| MpB—Morristown channery clay loam, 0 to 6 percent slopes | | | | |
| | 90 | Morristown | 6s | — |
| MpD—Morristown channery clay loam, 6 to 20 percent slopes | | | | |
| | 95 | Morristown | 6s | — |
| MrF—Morristown channery clay loam, 20 to 70 percent slopes, very stony | | | | |
| | 85 | Morristown | 7e | — |
| MtF—Morristown channery silty clay loam, 25 to 70 percent slopes | | | | |
| | 75 | Morristown | 7e | — |
| Ne—Newark silt loam, frequently flooded | | | | |
| | 85 | Newark | 2w | — |
| New1AF—Newark silt loam, 0 to 3 percent slopes, frequently flooded | | | | |
| | 90 | 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 | — |
| Omu1B1—Omulga silt loam, 2 to 6 percent slopes | | | | |
| | 85 | Omulga | 2e | — |
| Omu1C1—Omulga silt loam, 6 to 12 percent slopes | | | | |
| | 85 | Omulga | 3e | — |
| Pg—Pits, gravel | | | | |
| | 75 | Pits | — | — |

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| Map unit symbol and name | Pct. of map unit | Component name | Land Capability Subclass | |
| | | | Nonirrigated | Irrigated |
| RvE—Richland-Vandalia complex, 20 to 35 percent slopes | | | | |
| | 45 | Richland | 6e | — |
| | 40 | Vandalia | 6e | — |
| StF—Steinsburg loam, 25 to 70 percent slopes | | | | |
| | 85 | Steinsburg | 7e | — |
| Ud—Udorthents | | | | |
| | 92 | Udorthents | — | — |
| UpC2—Upshur silty clay loam, 6 to 12 percent slopes, eroded | | | | |
| | 80 | Upshur | 4e | — |
| UpD2—Upshur silty clay loam, 12 to 20 percent slopes, eroded | | | | |
| | 80 | Upshur | 6e | — |
| VaE2—Vandalia silt loam, 20 to 35 percent slopes, eroded | | | | |
| | 80 | Vandalia | 6e | — |
| VbD2—Vandalia-Brookside complex, 12 to 20 percent slopes, eroded | | | | |
| | 50 | Vandalia | 4e | — |
| | 40 | Brookside | 4e | — |
| W—Water | | | | |
| | 100 | Water | — | — |
| WeB—Wellston silt loam, 3 to 8 percent slopes | | | | |
| | 85 | Wellston | 2e | — |
| WeC2—Wellston silt loam, 8 to 15 percent slopes | | | | |
| | 85 | Wellston | 3e | — |
| WfB—Westgate silt loam, 2 to 6 percent slopes | | | | |
| | 85 | Westgate | 2e | — |
| WfC2—Westgate silt loam, 6 to 12 percent slopes, eroded | | | | |
| | 85 | Westgate | 3e | — |
| WgD2—Westmoreland-Guernsey complex, 12 to 20 percent slopes, eroded | | | | |
| | 45 | Westmoreland | 4e | — |
| | 35 | Guernsey | 4e | — |

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|--|------------------|----------------|--------------------------|-----------|
| Map unit symbol and name | Pct. of map unit | Component name | Land Capability Subclass | |
| | | | Nonirrigated | Irrigated |
| WgE2—Westmoreland-Guernsey complex, 20 to 35 percent slopes, eroded | | | | |
| | 45 | Westmoreland | 6e | — |
| | 35 | Guernsey | 6e | — |
| WgF—Westmoreland-Guernsey complex, 35 to 70 percent slopes | | | | |
| | 60 | Westmoreland | 7e | — |
| | 30 | Guernsey | 7e | — |
| WhD2—Westmoreland-Guernsey silt loams, 15 to 25 percent slopes, eroded | | | | |
| | 45 | Westmoreland | 4e | — |
| | 35 | Guernsey | 4e | — |
| WhE2—Westmoreland-Guernsey silt loams, 25 to 40 percent slopes, eroded | | | | |
| | 45 | Westmoreland | 6e | — |
| | 35 | Guernsey | 6e | — |
| WnC2—Westgate silt loam, 6 to 15 percent slopes, eroded | | | | |
| | 80 | Westgate | 3e | — |
| WyB—Woodsfield silt loam, 2 to 6 percent slopes | | | | |
| | 85 | Woodsfield | 2e | — |
| WyC2—Woodsfield silt loam, 6 to 12 percent slopes, eroded | | | | |
| | 85 | Woodsfield | 3e | — |
| ZnB—Zanesville silt loam, 2 to 6 percent slopes | | | | |
| | 85 | Zanesville | 2e | — |
| ZnC2—Zanesville silt loam, 6 to 12 percent slopes, eroded | | | | |
| | 85 | Zanesville | 3e | — |

Data Source Information

Soil Survey Area: Morgan County, Ohio
 Survey Area Data: Version 10, Sep 19, 2014