

## Hydric Soil List - All Components

This table lists the map unit components and their hydric status in the survey area. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 2002).

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for all of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The criteria for hydric soils are represented by codes in the table (for example, 2). Definitions for the codes are as follows:

1. All Histels except for Folistels, and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
  - A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
  - B. Show evidence that the soil meets the definition of a hydric soil;
3. Soils that are frequently ponded for long or very long duration during the growing season.
  - A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
  - B. Show evidence that the soil meets the definition of a hydric soil;
4. Map unit components that are frequently flooded for long duration or very long duration during the growing season that:
  - A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
  - B. Show evidence that the soil meets the definition of a hydric soil;

Hydric Condition: Food Security Act information regarding the ability to grow a commodity crop without removing woody vegetation or manipulating hydrology.

References:

- Federal Register. July 13, 1994. Changes in hydric soils of the United States.  
Federal Register. Doc. 2012-4733 Filed 2-28-12. February, 28, 2012. Hydric soils of the United States.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.
- Vasilas, L.M., G.W. Hurt, and C.V. Noble, editors. Version 7.0, 2010. Field indicators of hydric soils in the United States.

## Report—Hydric Soil List - All Components

Hydric Soil List - All Components--OH109-Miami County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Ag: Algiers silt loam	Algiers	85	Flood plains	No	—
	Sloan	5	Oxbows on flood plains, sloughs on flood plains	Yes	2,3
	Brookston	5	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	Montgomery	5	Depressions on terraces	Yes	2,3
	Shoals		Flood plains	—	—
	Medway		Flood plains	—	—
BIB2: Blount silt loam, 2 to 6 percent slopes, eroded	Blount	80-95	End moraines on till plains, ground moraines on till plains	No	—
	Glynwood	0-12	End moraines on till plains, ground moraines on till plains	No	—
	Pewamo	0-9	End moraines on till plains, ground moraines on till plains	Yes	2
Ble1A1: Blount silt loam, end moraine, 0 to 2 percent slopes	Blount-End moraine	80-95	End moraines on till plains	No	—
	Glynwood-End moraine	0-12	End moraines on till plains	No	—
	Pewamo-End moraine	0-9	End moraines on till plains	Yes	2
Ble1B1: Blount silt loam, end moraine, 2 to 4 percent slopes	Blount-End moraine	80-95	End moraines on till plains	No	—
	Glynwood-End moraine	0-12	End moraines on till plains	No	—
	Pewamo-End moraine	0-9	End moraines on till plains	Yes	2
Blg1A1: Blount silt loam, ground moraine, 0 to 2 percent slopes	Blount-Ground moraine	80-95	Ground moraines on till plains	No	—
	Pewamo-Ground moraine	0-12	Ground moraines on till plains	Yes	2
	Glynwood-Ground moraine	0-9	Ground moraines on till plains	No	—

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Blg1B1: Blount silt loam, ground moraine, 2 to 4 percent slopes	Blount-Ground moraine	80-95	Ground moraines on till plains	No	—
	Pewamo-Ground moraine	0-12	Ground moraines on till plains	Yes	2
	Glynwood-Ground moraine	0-9	Ground moraines on till plains	No	—
Bs: Brookston silty clay loam, fine texture, 0 to 2 percent slopes	Brookston	85-95	Ground moraines	Yes	2,3
	Celina	0-5	Till plains	No	—
	Crosby	5-10	Till plains	No	—
CcD2: Casco gravelly loam, 12 to 20 percent slopes, eroded	Casco	80	Knolls on outwash terraces	No	—
	Rodman	10	Outwash terraces	—	—
	Eldean	10	Outwash terraces	—	—
CeA: Celina silt loam, 0 to 2 percent slopes	Celina	90	Ridges on ground moraines	No	—
	Brookston	5	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	slopes of 2 to 6 percent	5	—	—	—
CeB: Celina silt loam, 2 to 6 percent slopes	Crosby		Till plains	—	—
	Celina	85-90	Till plains	No	—
	Crosby	0-5	Till plains	No	—
	Kokomo	0-5	Depressions on till plains	Yes	2,3
CeB2: Celina silt loam, 2 to 6 percent slopes, moderately eroded	Brookston	0-5	Depressions	Yes	2,3
	Celina	95	Knolls on ground moraines	No	—
	Brookston	3	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	severely eroded areas	2	—	—	—
	calcareous till at less than 18 inches		—	—	—
	Crosby		Till plains	—	—
	Miamian		Till plains	—	—
	uneroded areas		—	—	—

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CoA: Corwin silt loam, 0 to 2 percent slopes	Corwin	94	Ground moraines	No	—
	slopes of 2 to 6 percent	3	—	—	—
	Brookston	3	Depressions on ground moraines	Yes	2,3
	sand and gravel at 5 feet or more		—	—	—
	Celina		Moraines,till plains	—	—
	Crosby		Till plains	—	—
	Odell		Moraines,till plains	—	—
CoB: Corwin silt loam, 2 to 6 percent slopes	Corwin	92	Ground moraines	No	—
	Brookston	5	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	slopes of 0 to 2 percent	3	—	—	—
	Celina		Moraines,till plains	—	—
	Odell		Moraines,till plains	—	—
CrA: Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	Crosby	80-100	Recessionial moraines,water-lain moraines,ground moraines	No	—
	Kokomo-Drained	0-10	Swales,water-lain moraines,depressions	Yes	2,3
	Celina-Eroded	0-10	Recessionial moraines,water-lain moraines,ground moraines	No	—
	Miamian-Eroded	0-10	Recessionial moraines,water-lain moraines,ground moraines	No	—
CrB: Crosby silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes	Crosby	80-100	Recessionial moraines,water-lain moraines,ground moraines	No	—
	Kokomo-Drained	0-10	Swales,water-lain moraines,depressions	Yes	2,3

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	Celina-Eroded	0-10	Recessional moraines, water-lain moraines, ground moraines	No	—
	Lewisburg	0-10	Recessional moraines, water-lain moraines, ground moraines	No	—
	Miamian-Eroded	0-10	Recessional moraines, water-lain moraines, ground moraines	No	—
Ed: Edwards muck	Edwards	90	Swamps, bogs	Yes	1,3
	Montgomery	5	Swamps, bogs	Yes	2,3
	Linwood	5	Swamps, bogs	Yes	1,3
Ee: Eel silt loam	Eel	95	Flood plains	No	—
	Sloan	5	Oxbows on flood plains, sloughs on flood plains	Yes	2,4
	loam surface layer		—	—	—
	Medway		Flood plains	—	—
	Genesee		Flood plains	—	—
	Shoals		Flood plains	—	—
EIA: Eldean loam, 0 to 2 percent slopes	Eldean	95	Terraces	No	—
	slopes of 2 to 6 percent	5	—	—	—
	Ockley		Terraces	—	—
	silt loam surface layer		—	—	—
EIB: Eldean loam, 2 to 6 percent slopes	Eldean	97	Ridges on terraces, knolls on terraces	No	—
	Casco	3	Terraces	—	—
	coarser textured subsoil		—	—	—
	moderately eroded areas		—	—	—
	no gravel within 40 inches		—	—	—
	slopes of more than 6 percent		—	—	—
	Lorenzo		Stream terraces, moraines, valley trains, eskers, kames, outwash plains	—	—

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EIB2: Eldean loam, 2 to 6 percent slopes, moderately eroded	Eldean	95	Ridges on terraces, knolls on terraces	No	—
	Casco	5	Terraces	—	—
	slopes of more than 6 percent		—	—	—
	slightly eroded areas		—	—	—
	silt loam surface layer		—	—	—
	gravelly loam surface layer		—	—	—
	Lorenzo		Stream terraces, moraines, valley trains, eskers, kames, outwash plains	—	—
EmA: Eldean silt loam, 0 to 2 percent slopes	Eldean	90	Eskers, terraces, kames	No	—
	slopes of 2 to 6 percent	10	—	—	—
	Ockley		Terraces	—	—
EmB: Eldean silt loam, 2 to 6 percent slopes	Eldean	100	Eskers, terraces, kames	No	—
	Ockley		Terraces	—	—
	moderately eroded areas		—	—	—
EmB2: Eldean silt loam, 2 to 6 percent slopes, eroded	Eldean	75	Outwash terraces	No	—
	Ockley	15	Terraces	—	—
	Westland	10	Draws, depressions	Yes	2,3
EoC2: Eldean-Casco gravelly loams, 6 to 12 percent slopes, moderately eroded	Eldean	50	Knolls, terraces, ridges	No	—
	Casco	35	Knolls, terraces, ridges	No	—
	severely eroded areas	15	—	—	—
	slightly eroded areas		—	—	—
	Lorenzo		—	—	—
	silt loam surface layer		—	—	—
	loam surface layer		—	—	—
	slopes of more than 12 percent		—	—	—
EoD2: Eldean-Casco gravelly loams, 12 to 18 percent slopes, moderately eroded	Eldean	50	Knolls, terraces, ridges	No	—
	Casco	35	Knolls, terraces, ridges	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	severely eroded areas	15	—	—	—
	slopes of more than 18 percent		—	—	—
	Lorenzo		Stream terraces,moraines,v alley trains,eskera,kames ,outwash plains	—	—
	Rodman		Terraces	—	—
	loam surface layer		—	—	—
EpD3: Eldean-Casco complex, 6 to 18 percent slopes, severely eroded	Casco	40	Eskers,terraces,kames	No	—
	Eldean	40	Eskers,terraces,kames	No	—
	moderately eroded areas	15	—	—	—
	loose sand and gravel at the surface	5	—	—	—
	slopes of more than 18 percent		—	—	—
	Lorenzo		Stream terraces,moraines,v alley trains,eskera,kames ,outwash plains	—	—
EqC2: Eldean-Casco complex, 6 to 12 percent slopes, eroded	Eldean	50	Outwash terraces	No	—
	Casco	30	Outwash terraces	No	—
	Miamian	20	Till plains	—	—
ErB: Eldean-Miamian complex, 2 to 6 percent slopes	Eldean	50	Eskers,knolls on moraines,kames,ridges on moraines	No	—
	Miamian	35	Eskers,knolls on moraines,kames,ridges on moraines	No	—
	Ockley, till substratum	7	Terraces	—	—
	Martinsville, till substratum	6	Terraces	—	—
	Brookston	2	Drainageways on ground moraines,depressions on ground moraines	Yes	2,3
	slopes of more than 6 percent		—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
ErC: Eldean-Miamian complex, 6 to 12 percent slopes	Eldean	50	Eskers on moraines,kames on moraines	No	—
	Miamian	35	Eskers on moraines,kames on moraines	No	—
	severely eroded areas	12	—	—	—
	Brookston	3	Drainageways on ground moraines,depressions on ground moraines	Yes	2,3
	uneroded areas		—	—	—
	slopes of more than 12 percent		—	—	—
	silt loam surface layer		—	—	—
Gn: Genesee silt loam	Genesee	95	Flood plains	No	—
	Sloan	5	Oxbows on flood plains,sloughs on flood plains	Yes	2
	loam surface layer		—	—	—
	Stonelick		Flood plains	—	—
	Medway		Flood plains	—	—
	Ross		Terraces,flood plains	—	—
	Eel		Flood-plain steps,flood plains	—	—
GwD2: Glynwood silt loam, 12 to 18 percent slopes, moderately eroded	Glynwood	90	Hillsides on ground moraines	No	—
	severely eroded areas	10	—	—	—
	uneroded areas		—	—	—
	slopes of more than 18 percent		—	—	—
Gwd5C2: Glynwood clay loam, 6 to 12 percent slopes, eroded	Glynwood	75-90	End moraines	No	—
	Blount	0-9	Flats on ground moraines,rises on ground moraines	No	—
	Morley	0-9	Till plains	No	—
Gwe1B1: Glynwood silt loam, end moraine, 2 to 6 percent slopes	Glynwood-End moraine	80-90	End moraines on till plains	No	—
	Blount-End moraine	0-12	End moraines on till plains	No	—
	Pewamo	0-9	End moraines on till plains	Yes	2

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Gwe1B2: Glynwood silt loam, end moraine, 2 to 6 percent slopes, eroded	Glynwood-End moraine	80-90	End moraines on till plains	No	—
	Blount-End moraine	0-12	End moraines on till plains	No	—
	Pewamo	0-9	End moraines on till plains	Yes	2
Gwg1B1: Glynwood silt loam, ground moraine, 2 to 6 percent slopes	Glynwood-Ground moraine	80-90	Ground moraines on till plains	No	—
	Blount-Ground moraine	0-12	Ground moraines on till plains	No	—
	Pewamo	0-9	Ground moraines on till plains	Yes	2
Gwg1B2: Glynwood silt loam, ground moraine, 2 to 6 percent slopes, eroded	Glynwood-Ground moraine	80-90	Ground moraines on till plains	No	—
	Blount-Ground moraine	0-12	Ground moraines on till plains	No	—
	Pewamo	0-9	Ground moraines on till plains	Yes	2
Gwg5C2: Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded	Glynwood	75-90	Ground moraines	No	—
	Blount	0-9	Flats on ground moraines	No	—
	Pewamo	0-9	Depressions on till plains	Yes	2
Gwg5C3: Glynwood clay loam, 6 to 12 percent slopes, severely eroded	Glynwood	75-90	Ground moraines	No	—
	Blount	0-9	Flats on ground moraines	No	—
	Pewamo	0-9	Depressions on till plains	Yes	2
GwM5C3: Glynwood-Mississinewa clay loams, 6 to 12 percent slopes, severely eroded	Glynwood	60-90	End moraines	No	—
	Mississinewa	10-35	End moraines	No	—
	Blount	0-9	Flats on end moraines	No	—
	Morley	0-9	Till plains	No	—
GyD3: Glynwood clay loam, 12 to 18 percent slopes, severely eroded	Glynwood	95	Hillsides on ground moraines	No	—
	calcareous till at the surface	5	—	—	—

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	slopes of more than 18 percent		—	—	—
	silty clay loam surface layer		—	—	—
	moderately eroded areas		—	—	—
HeE2: Hennepin and Miamian silt loams, 18 to 25 percent slopes, moderately eroded	Hennepin	60	Valley sides, drainageways	No	—
	Miamian	40	Till plains on hillslopes	No	—
	Soils shallow to limestone		—	—	—
	Kendallville		Moraines, eskers, outwash terraces, kames	—	—
	Soils shallow to sand and gravel		—	—	—
HeF2: Hennepin and Miamian silt loams, 25 to 50 percent slopes, moderately eroded	Hennepin	60	Valley sides, drainageways	No	—
	Miamian	38	Till plains on hillslopes	No	—
	Escarments	2	—	—	—
	Soils shallow to sand and gravel		—	—	—
	Soils shallow to limestone		—	—	—
Ko: Kokomo silty clay loam, 0 to 2 percent slopes	Kokomo	85-95	Depressions on till plains	Yes	2,3
	Crosby	5-10	Till plains	No	—
	Celina	5-10	Till plains	No	—
Ln: Linwood muck	Linwood	85	Swamps on terraces, swales on moraines, bogs on terraces	Yes	1,3
	Montgomery	8	Swamps on terraces, swales on moraines, bogs on terraces	Yes	2,3
	muck less than 16 inches thick	7	Swamps on terraces, swales on moraines, bogs on terraces	Yes	1,3
	muck more than 50 inches thick		Swales on moraines, swamps on terraces, bogs on terraces	Yes	1,3

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LrE2: Lorenzo-Rodman gravelly loams, 18 to 50 percent slopes, moderately eroded	Lorenzo	50	Eskers,kames	No	—
	Rodman	35	Eskers,kames	No	—
	sand and gravel at the surface	15	—	—	—
	Eldean		End moraines,outwash terraces,kames	—	—
	Warsaw		Valley trains,terraces,kames,outwash plains	—	—
MaB: Martinsville and Ockley loams, till substratum, 2 to 6 percent slopes	Martinsville	45	Knolls on moraines,ridges on moraines	No	—
	Ockley	45	Knolls on moraines,ridges on moraines	No	—
	slopes of more than 6 percent	10	—	—	—
	Eldean		End moraines,outwash terraces,kames	—	—
	Miamian		Till plains	—	—
	Celina		Moraines,till plains	—	—
Md: Medway silt loam	Medway	90	Flood plains	No	—
	Sloan	5	Oxbows on flood plains,sloughs on flood plains	Yes	2
	Ross	5	Terraces,flood plains	—	—
	Eel		Flood-plain steps,flood plains	—	—
	sandy loam surface layer		—	—	—
	Shoals		Flood plains	—	—
	loam surface layer		—	—	—
MhA: Miamian silt loam, 0 to 2 percent slopes	Miamian	90	Ground moraines	No	—
	Brookston	5	Drainageways on ground moraines,depressions on ground moraines	Yes	2,3
	slopes of 2 to 6 percent	3	—	—	—
	Miamian, limestone substratum	2	Till plains	—	—

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	Celina		Moraines,till plains	—	—
MhB: Miamian silt loam, 2 to 6 percent slopes	Miamian	85-95	Till plains	No	—
	Celina	0-5	Till plains	No	—
	Crosby	0-5	Till plains	No	—
	Brookston	0-5	Depressions	Yes	2,3
MhB2: Miamian silt loam, 2 to 6 percent slopes, eroded	Miamian-Eroded	85-95	Recessionial moraines,ground moraines	No	—
	Kokomo	0-5	Depressions on till plains	Yes	2,3
	Celina-Eroded	0-10	Recessionial moraines,water-lain moraines,ground moraines	No	—
	Crosby	0-10	Till plains	No	—
MhC2: Miamian silt loam, 6 to 12 percent slopes, moderately eroded	Miamian	92	Hillsides on ground moraines,knolls on ground moraines	No	—
	Brookston	5	Drainageways on ground moraines	Yes	2,3
	severely eroded areas	3	—	—	—
	slopes of more than 12 percent		—	—	—
	Celina		Moraines,till plains	—	—
	uneroded areas		—	—	—
MhD2: Miamian silt loam, 12 to 18 percent slopes, moderately eroded	Miamian	95	Hillsides on ground moraines,knolls on ground moraines	No	—
	severely eroded areas	5	—	—	—
	slopes of more than 18 percent		—	—	—
	uneroded areas		—	—	—
MkA: Miamian silt loam, limestone substratum, 0 to 2 percent slopes	Miamian	95	Ground moraines	No	—
	Millsdale	5	Drainageways on ground moraines,depressions on ground moraines	Yes	2,3
	bedrock at more than 80 inches		—	—	—
	loam surface layer		—	—	—

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	Milton		Till plains	—	—
	Celina		Moraines,till plains	—	—
MkB: Miamian silt loam, limestone substratum, 2 to 6 percent slopes	Miamian	95	Hillsides on ground moraines, knolls on ground moraines, ridges on ground moraines	No	—
	Millsdale	5	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	Milton		Till plains	—	—
	bedrock at more than 80 inches		—	—	—
	loam surface layer		—	—	—
	Celina		Moraines,till plains	—	—
MkB2: Miamian silt loam, limestone substratum, 2 to 6 percent slopes, moderately eroded	Miamian	93	Hillsides on ground moraines, knolls on ground moraines, ridges on ground moraines	No	—
	Millsdale	5	Drainageways on ground moraines	Yes	2,3
	severely eroded areas	2	—	—	—
	bedrock at more than 80 inches		—	—	—
	uneroded areas		—	—	—
MkC2: Miamian silt loam, limestone substratum, 6 to 12 percent slopes, moderately eroded	Miamian	93	Hillsides on ground moraines, knolls on ground moraines	No	—
	Millsdale	5	Drainageways on ground moraines	Yes	2,3
	severely eroded areas	2	—	—	—
	uneroded areas		—	—	—
	slopes of more than 12 percent		—	—	—
MIC3: Miamian clay loam, shallow to dense till substratum, 6 to 12 percent slopes, severely eroded	Miamian-Severely eroded	85-95	Till plains	No	—
	Brookston	0-5	Till plains	Yes	2,3
	Kokomo	0-10	Depressions on till plains	Yes	2,3

Hydric Soil List - All Components--OH109-Miami County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
MID3: Miamian clay loam, 12 to 18 percent slopes, severely eroded	Miamian	95	Hillsides on ground moraines	No	—
	calcareous till at the surface	5	—	—	—
	slopes of more than 18 percent		—	—	—
	moderately eroded areas		—	—	—
MmE: Miamian and Hennepin silt loams, 18 to 25 percent slopes	Miamian	45	Hillsides on ground moraines	No	—
	Hennepin	45	Hillsides on ground moraines	No	—
	severely eroded areas	10	—	—	—
	Ritchey		Till plains	—	—
	Rodman		Terraces	—	—
	slopes of more than 25 percent		—	—	—
MmF: Miamian and Hennepin silt loams, 25 to 50 percent slopes	Miamian	45	— error in exists on —	No	—
	Hennepin	45	Hillsides on ground moraines	No	—
	slopes of more than 50 percent	5	—	—	—
	severely eroded areas	5	—	—	—
	Rodman		Terraces	—	—
	Ritchey		Till plains	—	—
	moderately eroded areas		—	—	—
MnA: Millsdale silt loam, 0 to 2 percent slopes	Millsdale	96	Depressions on ground moraines	Yes	2,3
	Odell	4	Moraines,till plains	No	—
	slopes of more than 2 percent		Depressions on ground moraines	Yes	2,3
	silty clay loam surface layer		Depressions on ground moraines	Yes	2,3
MnB: Millsdale silt loam, 2 to 6 percent slopes	Millsdale	95	Depressions on ground moraines	Yes	2,3
	Odell	5	Moraines,till plains	No	—
	silty clay loam surface layer		Depressions on ground moraines	Yes	2,3
MnI3A: Minster silty clay loam, till substratum, 0 to 1 percent slopes	Minster-Till substratum	80-95	Till plains	Yes	2
	Walkkill	0-9	Till plains	Yes	2,3

Hydric Soil List - All Components--OH109-Miami County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Blount	0-9	Rises on till plains	No	—
MoA: Millsdale silty clay loam, 0 to 2 percent slopes	Millsdale	95	Depressions on ground moraines	Yes	2,3
	Randolph	5	Till plains	No	—
	bedrock at more than 40 inches		Depressions on ground moraines	Yes	2,3
	silt loam surface layer		Depressions on ground moraines	Yes	2,3
MoB: Millsdale silty clay loam, 2 to 6 percent slopes	Millsdale	100	Depressions on ground moraines	Yes	2,3
	bedrock at less than 20 inches		Depressions on ground moraines	Yes	2,3
	bedrock at more than 40 inches		Depressions on ground moraines	Yes	2,3
	silt loam surface layer		Depressions on ground moraines	Yes	2,3
MpA: Milton silt loam, 0 to 2 percent slopes	Milton	90	Ridges on ground moraines	No	—
	Randolph	4	—	—	—
	Ritchey soils on 2 to 6 percent slopes	3	Till plains	—	—
	slopes of 2 to 6 percent	3	—	—	—
	Miamian, limestone substratum		Till plains	—	—
MpB: Milton silt loam, 2 to 6 percent slopes	Milton	95	Knolls on ground moraines, ridges on ground moraines	No	—
	Randolph	5	Till plains	—	—
	loam surface layer		—	—	—
	Miamian, limestone substratum		Till plains	—	—
MpB2: Milton silt loam, 2 to 6 percent slopes, moderately eroded	Milton	90	Ridges on ground moraines, knolls on ground moraines	No	—
	slopes of more than 6 percent	5	—	—	—
	Randolph	5	Till plains	—	—
	uneroded areas		—	—	—
	Ritchey		Till plains	—	—
MpC2: Milton silt loam, 6 to 12 percent slopes, moderately eroded	Milton	95	Hillsides on ground moraines, knolls on ground moraines	No	—
	severely eroded areas	5	—	—	—

Hydric Soil List - All Components--OH109-Miami County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	uneroded areas		—	—	—
	Miamian, limestone substratum		Till plains	—	—
MpD2: Milton silt loam, 12 to 18 percent slopes, moderately eroded	Milton	95	Hillsides on ground moraines	No	—
	Ritchey	5	Till plains	—	—
	slopes of more than 18 percent		—	—	—
	uneroded areas		—	—	—
OcA: Ockley silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	Ockley	80-95	Outwash terraces	No	—
	Eldean	0-10	Outwash terraces	No	—
	Sleeth	0-10	Stream terraces, outwash terraces	No	—
	Fox	0-10	Terraces, outwash plains	No	—
OcB: Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes	Ockley	80-90	Outwash terraces	No	—
	Fox	0-10	Terraces, outwash plains	No	—
	Eldean	0-10	Outwash terraces	No	—
	Sleeth	0-10	Stream terraces, outwash terraces	No	—
OdA: Odell silt loam, 0 to 2 percent slopes	Odell	95	Ground moraines	No	—
	Brookston	5	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	Crosby		Till plains	—	—
	Corwin		Moraines, till plains	—	—
OdB: Odell silt loam, 2 to 6 percent slopes	Odell	95	Ground moraines	No	—
	Brookston	5	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	Corwin		Moraines, till plains	—	—
	Crosby		Till plains	—	—

Hydric Soil List - All Components--OH109-Miami County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Pe: Pewamo silty clay loam	Pewamo	90	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	Blount	5	Flats on ground moraines, flats on end moraines, rises on ground moraines, rises on end moraines	No	—
	Glywood	5	End moraines, ground moraines	No	—
	silt loam surface layer		Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
Pg: Pits, gravel	Gravel pits	100	—	Unranked	—
Pq: Pits, quarry	Quarries	100	—	Unranked	—
RdA: Randolph silt loam, 0 to 2 percent slopes	Randolph	90	Ground moraines	No	—
	Millsdale	5	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	Milton	5	Till plains	—	—
	more than 40 inches to bedrock		—	—	—
RdB: Randolph silt loam, 2 to 6 percent slopes	Randolph	85	Ridges on ground moraines, knolls on ground moraines	No	—
	slopes of 0 to 2 percent	5	—	—	—
	Millsdale	5	Drainageways on ground moraines, depressions on ground moraines	Yes	2,3
	Milton on steeper slopes	5	Till plains	—	—
RgE: Rodman gravelly loam, 18 to 35 percent slopes	Rodman	85	Kame moraines	No	—
	Eldean	15	End moraines, outwash terraces, kames	—	—
RhB: Ritchey silt loam, 2 to 6 percent slopes	Ritchey	95	Knolls on ground moraines	No	—
	Randolph	5	Till plains	—	—

Hydric Soil List - All Components--OH109-Miami County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	moderately eroded areas		—	—	—
	Milton		Till plains	—	—
RhC: Ritchey silt loam, 6 to 18 percent slopes	Ritchey	97	Hillsides on ground moraines	No	—
	bedrock outcrop	3	—	—	—
	dark-colored soils		—	—	—
	moderately eroded areas		—	—	—
	bedrock at less than 10 inches		—	—	—
	Milton		Till plains	—	—
RhE: Ritchey silt loam, 18 to 50 percent slopes	Ritchey	92	Hillsides on ground moraines	No	—
	bedrock outcrop	4	—	—	—
	slopes of 50 to 70 percent	4	—	—	—
	dark colored soils		—	—	—
	soils underlain by shale		—	—	—
	bedrock at less than 10 inches		—	—	—
Rs: Ross silt loam	Ross	98	Flood plains	No	—
	Sloan	2	Oxbows on flood plains, sloughs on flood plains	Yes	2,4
	buried, dark colored soil at 36 inches or more		—	—	—
	Medway		Flood plains	—	—
	thinner surface layer		—	—	—
	Genesee		Flood plains	—	—
	cobbles and stones at 32 to 36 inches or more		—	—	—
	silty clay loam surface layer		—	—	—
Rt: Ross silt loam, shallow variant	Ross Variant	100	Flood plains	No	—
	slopes of more than 2 percent		—	—	—
	lighter colored surface layer		—	—	—
	bedrock at more than 20 inches		—	—	—

Hydric Soil List - All Components--OH109-Miami County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	silty clay loam surface layer		—	—	—
Sh: Shoals silt loam	Shoals	90	Flood plains	No	—
	Sloan	10	Oxbows on flood plains, sloughs on flood plains	Yes	2,3
	Medway		Flood plains	—	—
	Algiers		Terraces, flood plains	—	—
	Eel		Flood-plain steps, flood plains	—	—
	loam surface layer		—	—	—
Sk: Shoals silt loam, moderately shallow variant	Shoals Variant	90	Flood plains	No	—
	Sloan	10	Oxbows on flood plains, sloughs on flood plains	Yes	2,3
	bedrock at slightly more than 40 inches		—	—	—
SIA: Sleeth silt loam, 0 to 2 percent slopes	Sleeth	95	Terraces	No	—
	Westland	5	Drainageways on terraces, depressions on terraces	Yes	2,3
	darker colored surface layer		—	—	—
	moderately well drained soils		—	—	—
St: Stonelick loam	Stonelick	96	Flood plains	No	—
	Sloan	2	Oxbows on flood plains, sloughs on flood plains	Yes	2,4
	Eel	2	Flood-plain steps, flood plains	—	—
	sandy loam surface layer		—	—	—
	darker colored soils with a sandy loam surface layer		—	—	—
	Genesee		Flood plains	—	—
	silt loam surface layer		—	—	—
	riverwash		—	—	—
Ts: Tremont silt loam, occasionally flooded	Tremont	80	Flood plains	No	—
	Sloan	20	Oxbows, sloughs	Yes	2,3
Ud: Udorthents	Udorthents	100	—	Unranked	—

Hydric Soil List - All Components--OH109-Miami County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Uf: Udorthents, Sanitary landfill	Udorthents	100	—	Unranked	—
W: Water	Water	100	—	Unranked	—
Wa: Walkkill silt loam	Walkkill	90	Depressions on terraces, depressions on moraines	Yes	2,3
	Shoals	5	Flood plains	No	—
	Linwood	5	Swamps on terraces, swales on moraines, bogs on terraces	Yes	1,3
WdA: Warsaw silt loam, 0 to 2 percent slopes	Warsaw	95	Terraces	No	—
	slopes of 2 to 6 percent	5	—	—	—
	Wea		Stream terraces, outwash terraces, kames, outwash plains	—	—
WeA: Wea silt loam, 0 to 2 percent slopes	Wea	90	Terraces	No	—
	Westland	5	Drainageways on terraces, depressions on terraces	Yes	2,3
	gently sloping areas	5	—	—	—
	loam surface layer		—	—	—
	Ross		Terraces, flood plains	—	—
	Warsaw		Valley trains, terraces, kames, outwash plains	—	—
Wt: Westland silty clay loam	Westland	85	Depressions on terraces	Yes	2,3
	slopes of 2 to 6 percent	3	—	—	—
	Warsaw	3	Valley trains, terraces, kames, outwash plains	No	—
	Wea	3	Stream terraces, outwash terraces, kames, outwash plains	No	—
	Algiers	3	Terraces, flood plains	No	—
	Shoals	3	Flood plains	No	—
	Montgomery		Depressions on terraces	Yes	2,3

## Data Source Information

Soil Survey Area: Miami County, Ohio  
Survey Area Data: Version 12, Sep 19, 2014