

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—OH107-Mercer County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
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	—
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	—
BnA: Blount loam, 0 to 2 percent slopes	Blount	80-95	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
	Haskins	0-9	Ground moraines on till plains,end moraines on till plains	No	—
	Glynwood	0-9	Ground moraines on till plains,end moraines on till plains	No	—

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BoB2: 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	Ground moraines on till plains,end moraines on till plains	No	—
	Pewamo	0-9	End moraines on till plains,ground moraines on till plains	Yes	2
Ca: Carlisle muck	Carlisle	100	Potholes	Yes	1,3,4
	muck 16 to 51 inches thick over mineral material		Potholes	Yes	1,3,4
	Edwards		Potholes	Yes	1,3,4
DgA: Del Rey silt loam, 0 to 3 percent slopes	Del Rey	85	Lakeshores	No	—
	Montgomery	15	Depressions	Yes	2,3
DmA: Digby loam, 0 to 2 percent slopes	Digby	95	Outwash terraces,outwash plains	No	—
	Millgrove	5	Drainageways,depressions	Yes	2,3
	Gallman		Outwash terraces,outwash plains,moraines,kames	—	—
	Haskins		Till plains,lake plains	—	—
	sandy loam surface layer		—	—	—
DmB: Digby loam, 2 to 6 percent slopes	Digby	95	Outwash plains,outwash terraces	No	—
	Millgrove	5	Depressions,drainageways	Yes	2,3
	48 to 80 inches deep to substratum		—	—	—
	Haskins		Till plains,lake plains	—	—
	sandy loam surface layer		—	—	—
	Gallman		Kames,outwash plains,moraines,outwash terraces	—	—
Ed: Edwards muck	Edwards	100	Depressions	Yes	1,3,4
	Olentangy		Depressions	Yes	2,3

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	Carlisle		Depressions	Yes	1,3,4
	mineral material between muck and marl		Depressions	Yes	1,3,4
	muck layer 12 to 16 inches thick		Depressions	Yes	2,3,4
	mucky silt loam surface layer and clayey substratum		Depressions	Yes	1,3,4
	Montgomery		Depressions	Yes	2,3
	sedimentary peat at 24 to 36 inches		Depressions	Yes	2,3,4
	Pewamo		Depressions	Yes	2,3
Ee: Eel silt loam	Eel	95	Flood plains	No	—
	Sloan	5	Sloughs,oxbows	Yes	2,3
	silty clay or silty clay loam layers in substratum		—	—	—
	Shoals		Flood plains	—	—
	Genesee		Flood plains	—	—
EIB: Eldean loam, 2 to 6 percent slopes	Eldean	100	Outwash terraces,kames,moraines	No	—
	gravelly loam surface layer		—	—	—
	slopes of 0 to 2 percent		—	—	—
	Ockley		Terraces	—	—
	eroded areas		—	—	—
EIC2: Eldean loam, 6 to 12 percent slopes, moderately eroded	Eldean	100	Kames,outwash terraces,end moraines	No	—
	slopes of 12 to 18 percent		—	—	—
	severely eroded areas with clay loam surface layer		—	—	—
EoB: Elliott silt loam, 1 to 4 percent slopes	Elliott	95	Till plains	No	—
	Pewamo	5	Drainageways,depressions	Yes	2,3
	slopes of 4 to 6 percent		—	—	—
	silty clay loam surface layer		—	—	—

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	Blount		Flats on ground moraines, flats on end moraines, rises on ground moraines, rises on end moraines	—	—
GaB: Gallman sandy loam, 2 to 6 percent slopes	Gallman	100	Outwash terraces, kames, outwash plains, moraines	No	—
	Rawson		Till plains, lake plains, outwash plains	—	—
	loam surface layer		—	—	—
	Digby		Outwash plains, outwash terraces	—	—
GbB: Gallman loam, 2 to 6 percent slopes	Gallman	100	Outwash terraces, outwash plains, moraines, kames	No	—
	slopes of 6 to 12 percent		—	—	—
	Digby		Outwash plains, outwash terraces	—	—
	sandy loam surface layer		—	—	—
Gn: Genesee silt loam	Genesee	95	Flood plains	No	—
	Sloan	5	Sloughs, oxbows	Yes	2,3
	Eel		Flood-plain steps, flood plains	—	—
	Shoals		Flood plains	—	—
Gwd5C2: Glynwood clay loam, 6 to 12 percent slopes, eroded	Glynwood	75-90	End moraines	No	—
	Blount	0-9	Rises on ground moraines, flats 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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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	—
HnA: Haskins loam, 0 to 2 percent slopes	Haskins	95	Lake plains, till plains	No	—
	Pewamo	5	Depressions	Yes	2,3

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	Rawson		Outwash plains,lake plains,till plains	—	—
	Blount		Rises on end moraines,flats on ground moraines,flats on end moraines,rises on ground moraines	—	—
	Digby		Outwash terraces,outwash plains	—	—
HnB: Haskins loam, 2 to 6 percent slopes	Haskins	95	Till plains,lake plains	No	—
	Pewamo	5	Depressions,drainage ways	Yes	2,3
	Rawson		Outwash plains,lake plains,till plains	—	—
	Digby		Outwash plains,outwash terraces	—	—
	Blount		Flats on ground moraines,flats on end moraines,rises on ground moraines,rises on end moraines	—	—
	Glynwood		End moraines,ground moraines	—	—
McA: McGary silty clay loam, 0 to 2 percent slopes	McGary	95	Terraces	No	—
	Montgomery	5	Depressions	Yes	2,3
	Blount		Rises on ground moraines,rises on end moraines,flats on ground moraines,flats on end moraines	—	—
	slopes of 2 to 6 percent		—	—	—
	silt loam surface layer		—	—	—
	areas subject to flooding		—	—	—
McB: McGary silty clay loam, 2 to 6 percent slopes	McGary	95	Terraces	No	—
	Montgomery	5	Drainageways,depressions	Yes	2,3
	silt loam surface layer		—	—	—
	areas subject to flooding		—	—	—

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	Blount		Rises on ground moraines,rises on end moraines,flats on ground moraines,flats on end moraines	—	—
	eroded, better drained, more sloping soils		—	—	—
Mf: Millgrove clay loam	Millgrove	85	Stream terraces	Yes	2,3
	Digby	5	Outwash plains,outwash terraces	No	—
	Digby Variant	5	Outwash plains	No	—
	Frequently flooded areas along St. Mary's and Auglaize River	3	Stream terraces	Yes	2,3
	Free lime in the surface layer	2	Stream terraces	Yes	2,3
Mg: Millgrove silty clay loam	Millgrove	100	Depressions	Yes	2,3
	areas subject to occasional flooding		Depressions	Yes	2,3
	till at a depth of 40 to 60 inches		Depressions	Yes	2,3
	loam surface layer		Depressions	Yes	2,3
	Digby		Outwash plains,outwash terraces	No	—
Mh: Millsdale silty clay loam	Millsdale	100	Depressions	Yes	2,3
	areas subject to rare flooding		Depressions	Yes	2,3
	somewhat poorly drained soils with loam surface layer		—	No	—
	quarries		—	Unranked	—
Mn13A: 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
	Blount	0-9	Rises on till plains	No	—
Mns3A: Minster silty clay loam, 0 to 1 percent slopes	Minster	85-95	Lake plains	Yes	2
	McGary	0-9	Lake plains	No	—
	Saranac	0-6	Flood plains	Yes	2

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MrD2: Morley silt loam, 12 to 18 percent slopes, moderately eroded	Morley	100	Moraines,till plains	No	—
	substratum at a depth of 7 to 20 inches		—	—	—
	severely eroded areas with clay loam surface layer		—	—	—
	slopes of 18 to 25 percent		—	—	—
MrE2: Morley silt loam, 18 to 25 percent slopes, moderately eroded	Morley	100	Till plains,moraines	No	—
	severely eroded areas with clay loam surface layer		—	—	—
	substratum at a depth of 7 to 20 inches		—	—	—
	slopes of 25 to 35 percent		—	—	—
	slopes of 12 to 18 percent		—	—	—
MsD3: Morley clay loam, 9 to 18 percent slopes, severely eroded	Morley	100	Moraines,till plains	No	—
	slopes of 18 to 25 percent		—	—	—
	slopes of 6 to 9 percent		—	—	—
	moderately eroded areas with silt loam surface layer		—	—	—
	substratum at a depth of 7 to 20 inches		—	—	—
OcA: Ockley loam, 0 to 2 percent slopes	Ockley	100	Terraces	No	—
	slopes of 2 to 6 percent		—	—	—
	Eldean		Outwash terraces,end moraines,kames	—	—
	sandy loam surface layer		—	—	—
	thin layers of silt loam, sandy loam, or loam in substratum		—	—	—
OcB: Ockley loam, 2 to 6 percent slopes	Ockley	100	Terraces	No	—
	eroded areas		—	—	—

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	slopes of 6 to 12 percent		—	—	—
	sandy loam surface layer		—	—	—
	Eldean		Outwash terraces,end moraines,kames	—	—
	thin layers of silt loam, sandy loam, or loam in substratum		—	—	—
On: Olentangy mucky silt loam	Olentangy	100	Depressions	Yes	2,3
	Carlisle		Depressions	Yes	1,3,4
	till or lacustrine material below a depth of 60 inches		Depressions	Yes	2,3
	till or lacustrine material at a depth of 18 to 24 inches		Depressions	Yes	2,3
Pm: Pewamo silty clay loam	Pewamo	100	Ground moraines	Yes	2,3
	silt loam overwash in the surface layer		Ground moraines	Yes	2,3
	marl in the subsoil		Ground moraines	Yes	2,3
	Montgomery		Depressions	Yes	2,3
	Elliott		Till plains	No	—
	less clay and more sand and gravel in lower substratum		Ground moraines	Yes	2,3
	Blount		Flats on ground moraines,flats on end moraines,rises on ground moraines,rises on end moraines	No	—
Pn: Pewamo silty clay loam, ponded	Pewamo	100	Ground moraines	Yes	2,3
	Montgomery		Depressions	Yes	2,3
	Blount		Rises on end moraines,flats on ground moraines,flats on end moraines,rises on ground moraines	No	—
Po: Pewamo silty clay	Pewamo	100	Ground moraines	Yes	2,3
	Blount		Rises on ground moraines,rises on end moraines,flats on ground moraines,flats on end moraines	No	—

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	Elliott		Till plains	No	—
	silty clay loam surface layer		Ground moraines	Yes	2,3
	Montgomery		Depressions	Yes	2,3
Ps: Pits, gravel	Pits	100	—	Unranked	—
Qu: Quarries	Quarries	100	—	Unranked	—
RmB: Rawson loam, 2 to 6 percent slopes	Rawson	97	Outwash plains,till plains,lake plains	No	—
	Pewamo	3	Depressions	Yes	2,3
	Glynwood		End moraines,ground moraines	—	—
	eroded areas		—	—	—
	Haskins		Till plains,lake plains	—	—
Sac3AF: Saranac silty clay loam, 0 to 1 percent slopes, frequently flooded	Saranac-Brief duration	85-95	Flood plains	Yes	2
	Saranac-Long duration	0-9	Backswamps on flood plains	Yes	2,4
	Defiance	0-9	Flood plains	No	—
Sa3S3AF: Saranac-Spencerville silty clay loams, 0 to 1 percent slopes, frequently flooded	Saranac-Brief duration	50-80	Flood plains	Yes	2
	Spencerville	10-35	Flood plains	No	—
	Shoals	0-9	Flood plains	No	—
	Saranac-Long duration	0-8	Backswamps on flood plains	Yes	2,4
Sho1AO: Shoals silt loam, 0 to 2 percent slopes, occasionally flooded	Shoals	80-100	Flood plains	No	—
	Sloan	0-9	Flood plains	Yes	2
	Eel	0-9	Flood plains	No	—
Sho3AF: Shoals silty clay loam, 0 to 1 percent slopes, frequently flooded	Shoals	80-100	Flood plains	No	—
	Eel	0-9	Flood plains	No	—
	Sloan	0-9	Flood plains	Yes	2
Slo3AF: Sloan silty clay loam, 0 to 1 percent slopes, frequently flooded	Sloan-Brief duration	85-100	Flood plains	Yes	2
	Shoals	0-9	Flood plains	No	—
	Sloan-Long duration	0-8	Flood plains	Yes	2

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So: Sloan silty clay loam	Sloan	100	Flood plains	Yes	2,3
	Wabasha		Backswamps,flood plains	Yes	2,3,4
	Shoals		Flood plains	No	—
	thinner surface layer and subsurface layer		Flood plains	Yes	2,3
	silt loam surface layer		Flood plains	Yes	2,3
Ud: Udorthents, loamy	Udorthents	100	—	No	—
W: Water	Water	100	—	Unranked	—
Wg: Wabasha silty clay loam	Wabasha	100	Flood plains	Yes	2,4
	dark colored surface layer 10 to 15 inches thick		Flood plains	Yes	2,4
Wh: Wabasha silty clay	Wabasha	100	Flood plains	Yes	2,3,4
	Sloan		Flood plains	Yes	2,3
	silty clay loam surface layer		Flood plains	Yes	2,3,4
	Defiance		Flood plains	Yes	4
	sand and fine gravel at a depth of 48 inches		Flood plains	Yes	2,3,4

Data Source Information

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