

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—OH149-Shelby County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Af: Algiers silt loam	Algiers	85	Flood plains	No	—
	Montgomery	5	Depressions on terraces	Yes	2,3
	Sloan	5	Sloughs on flood plains, oxbows on flood plains	Yes	2,3
	Brookston	5	Depressions on ground moraines, drainage ways on ground moraines	Yes	2,3
	Shoals		Flood plains	—	—
	Medway		Flood plains	—	—
Ag: Algiers silt loam	Algiers	90	Terraces, flood plains	No	—
	Sloan	5	Sloughs, oxbows	Yes	2,3,4
	Blount	5	Rises on ground moraines, rises on end moraines, flats on ground moraines, flats on end moraines	—	—
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

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	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	—
Ca: Carlisle muck	Carlisle	90	Bogs	Yes	1,3,4
	loamy substratum	5	Bogs	Yes	1,3,4
	Walkkill	5	Depressions	Yes	2,3,4
CdD2: Casco-Eldean complex, 12 to 18 percent slopes, moderately eroded	Casco	60	Outwash terraces, outwash plains	No	—
	Eldean	40	End moraines, kames, outwash terraces	No	—
	Rodman		Terraces	—	—
CeA: Celina silt loam, 0 to 2 percent slopes	Celina	90	Till plains, moraines	No	—
	Crosby	4	Till plains	—	—
	gently sloping Celina	3	Till plains, moraines	—	—
	Brookston	3	Depressions	Yes	2,3
CeB: Celina silt loam, 2 to 6 percent slopes	Celina	85-90	Till plains	No	—
	Crosby	0-5	Till plains	No	—
	Kokomo	0-5	Depressions on till plains	Yes	2,3
	Brookston	0-5	Depressions	Yes	2,3
CnA: Crane silt loam, 0 to 2 percent slopes	Crane	85	Terraces, outwash plains	No	—
	Patton	5	Depressions	Yes	2,3
	slopes of more than 2 percent	4	—	—	—
	light colored soils	4	—	—	—
	soils with sand and gravel	2	—	—	—
CrA: Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	Crosby	80-100	Recessional moraines, water-lain moraines, ground moraines	No	—
	Kokomo-Drained	0-10	Depressions, water-lain moraines, swales	Yes	2,3

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	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, 2 to 6 percent slopes	Crosby	85	Till plains	No	—
	Brookston	5	Depressions, drainage ways	Yes	2,3
	nearly level Crosby	3	Till plains	—	—
	Celina	3	Till plains, moraines	—	—
	Miamian	2	Till plains	—	—
	Odell	2	Moraines, till plains	—	—
DmA: Digby loam, 0 to 2 percent slopes	Digby	85	Outwash terraces, outwash plains	No	—
	Sandy loam surface layer	5	—	—	—
	Gallman	5	Outwash plains, moraines, kames, outwash terraces	—	—
	Millgrove	5	Depressions	Yes	2,3
Ee: Eel silt loam, occasionally flooded	Eel	90	Flood plains	No	—
	Sloan	5	Sloughs, oxbows	Yes	2,3,4
	Shoals	3	Flood plains	—	—
	Medway	2	Flood plains	—	—
Ef: Eel Variant silt loam, occasionally flooded	Eel Variant	85	Flood plains	No	—
	Sloan	5	Sloughs, oxbows	Yes	2,3,4
	gravelly sandy loam substratum	5	—	—	—
	somewhat poorly drained soils	5	—	—	—
EIA: Eldean loam, 0 to 2 percent slopes	Eldean	90	Outwash terraces	No	—
	Ockley	3	Terraces	—	—
	Warsaw Variant	3	Outwash terraces	—	—
	gently sloping Casco	2	Outwash terraces	—	—
	gently sloping Eldean	2	Outwash terraces	—	—

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EIB: Eldean loam, 2 to 6 percent slopes	Eldean	90	Outwash terraces	No	—
	Warsaw	3	Outwash terraces	—	—
	Casco	3	Outwash terraces	—	—
	Ockley	2	Terraces	—	—
	slopes of more than 6 percent	2	—	—	—
EIC: Eldean loam, 6 to 12 percent slopes	Eldean	85	Outwash terraces, moraines, kames	No	—
	Eroded areas	15	—	—	—
EoC2: Eldean-Casco complex, 6 to 15 percent slopes, eroded	Eldean	50	Outwash terraces, end moraines, kames	No	—
	Casco	35	Outwash terraces, outwash plains	No	—
	dark colored soils	8	—	—	—
	sandy surface layer	7	—	—	—
	EsB2: Eldean-Morley complex, 2 to 6 percent slopes, eroded	Eldean	50	Eskers on moraines, kames on moraines	No
	Morley	35	Kames on moraines, eskers on moraines	No	—
	Pewamo	4	Depressions, drainage ways	Yes	2,3
	Casco	3	Eskers on moraines, kames on moraines	—	—
	slopes of more than 6 percent	3	—	—	—
	dark colored soils	3	—	—	—
	sandy surface layer	2	—	—	—
EsC2: Eldean-Morley complex, 6 to 15 percent slopes, eroded	Eldean	40	Eskers on moraines, kames on moraines	No	—
	Morley	30	Eskers on moraines, kames on moraines	No	—
	Pewamo	5	Drainageways	Yes	2,3
	slopes of less than 6 percent	5	—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	somewhat poorly drained soils	5	—	—	—
	Blount	5	Eskers on moraines,kames on moraines	—	—
	Glynwood	5	Kames on moraines,eskers on moraines	—	—
	Casco	5	Eskers on moraines,kames on moraines	—	—
FoC2: Fox-Miami silt loams, 6 to 12 percent slopes, moderately eroded	Fox	60	Terraces	No	—
	Miami	40	Till plains	No	—
	Severely eroded areas		—	—	—
Ge: Genesee silt loam, occasionally flooded	Genesee	90	Flood plains	No	—
	Sloan	4	Sloughs,oxbows	Yes	2,3,4
	Medway	2	Flood plains	—	—
	Stonelick	2	Flood plains	—	—
	Shoals	2	Flood plains	—	—
GID2: Glynwood silt loam, 12 to 18 percent slopes, eroded	Glynwood	85	Ground moraines,end moraines	No	—
	severely eroded areas	4	—	—	—
	uneroded Glynwood	4	Ground moraines,end moraines	—	—
	Morley	4	Till plains,moraines	—	—
	slopes of more than 18 percent	3	—	—	—
GmD3: Glynwood clay loam, 12 to 18 percent slopes, severely eroded	Glynwood	85	Ground moraines,end moraines	No	—
	slopes of more than 18 percent	5	—	—	—
	well drained soils	5	—	—	—
	uneroded Glynwood	5	Ground moraines,end moraines	—	—
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	—

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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
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	—

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Md: Medway silt loam, occasionally flooded	Medway	90	Flood plains	No	—
	Sloan	4	Sloughs,oxbows	Yes	2,3,4
	Shoals	3	Flood plains	—	—
	Eel	3	Flood-plain steps,flood plains	—	—
MhB: Miamian silt loam, 2 to 6 percent slopes	Miamian	85-95	Till plains	No	—
	Celina	0-5	Till plains	No	—
	Brookston	0-5	Depressions	Yes	2,3
	Crosby	0-5	Till plains	No	—
MhC2: Miamian silt loam, 6 to 12 percent slopes, eroded	Miamian	85-95	Till plains	No	—
	Celina	0-10	Till plains	No	—
	Crosby	0-10	Till plains	No	—
	Losantville	0-5	Till plains	No	—
MhD2: Miamian silt loam, 12 to 18 percent slopes, eroded	Miamian	85	Till plains	No	—
	uneroded Miamian	5	Till plains	—	—
	slopes of more than 18 percent	4	—	—	—
	slopes of less than 12 percent	3	—	—	—
	severely eroded areas	3	—	—	—
MhE: Miamian silt loam, 18 to 25 percent slopes	Miamian	85	Till plains	No	—
	slopes of more than 25 percent	5	—	—	—
	shallow soils on escarpments	5	—	—	—
	areas where streams undercut slopes	5	—	—	—
MhE2: Miamian silt loam, 18 to 25 percent slopes, moderately eroded	Miamian	100	Till plains	No	—
	yellowish brown clay loam surface layer		—	—	—
MhF: Miamian silt loam, 25 to 50 percent slopes	Miamian	90	Till plains	No	—
	slopes of less than 25 percent	4	—	—	—
	areas where streams undercut slopes	3	—	—	—
	shallow soils	3	—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
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
Mm: Millgrove clay loam	Millgrove	85	Stream terraces	Yes	2,3
	Digby	5	Outwash terraces, outwash plains	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
MnF: 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	—	—	—
	Ritchey		Till plains	—	—
	Rodman		Terraces	—	—
	moderately eroded areas		—	—	—
Mnl3A: 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
Mny3A: Minster silty clay loam, gravelly substratum, 0 to 1 percent slopes	Minster-Gravelly substratum	85-95	Outwash plains, lake plains	Yes	2
	Sleeth	0-9	Rises on outwash plains	No	—
	Westland	0-6	Outwash plains	Yes	2

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MoB: Milton silt loam, 2 to 6 percent slopes	Milton	90	Till plains	No	—
	shallow soils	4	—	—	—
	slopes of more than 6 percent	3	—	—	—
	very poorly drained soils	3	Drainageways	Yes	2,3
MxE: Morley silt loam, 18 to 25 percent slopes	Morley	90	Till plains,moraines	No	—
	shallow soils	5	—	—	—
	slopes of more than 25 percent	5	—	—	—
MxF: Morley silt loam, 25 to 50 percent slopes	Morley	90	Till plains,moraines	No	—
	shallow soils	5	—	—	—
	slopes of more than 50 percent	5	—	—	—
ObA: Ockley silt loam, 0 to 2 percent slopes	Ockley	95	Terraces	No	—
	slopes of 2 to 6 percent	5	—	—	—
	Wea		Outwash terraces,outwash plains,stream terraces,kames	—	—
ObB: Ockley silt loam, 2 to 6 percent slopes	Ockley	95	Terraces	No	—
	slopes of 0 to 2 percent	5	—	—	—
	Eldean		Outwash terraces,end moraines,kames	—	—
	moderately well drained soils		—	—	—
	moderately eroded areas		—	—	—
OcA: Ockley silt loam, 0 to 3 percent slopes	Ockley	90	Terraces	No	—
	Genesee	4	Flood plains	—	—
	slopes of more than 3 percent	3	—	—	—
	dark colored soils	3	—	—	—
OdA: Odell silt loam, 0 to 2 percent slopes	Odell	85	Till plains,moraines	No	—
	Celina	5	Till plains,moraines	—	—
	Crosby	5	Till plains	—	—
	Brookston	5	Depressions	Yes	2,3

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OdB: Odell silt loam, 2 to 6 percent slopes	Odell	85	Till plains,moraines	No	—
	Brookston	5	Drainageways,depressions	Yes	2,3
	Crosby	4	Till plains	—	—
	well drained soils	3	—	—	—
	Celina	3	Till plains,moraines	—	—
Pa: Patton silty clay loam	Patton	90	Depressions	Yes	2,3
	Algiers	4	Flood plains	No	—
	carbonates at the surface	3	Depressions	Yes	2,3
	Shoals	3	Flood plains	No	—
Pd: Pewamo silt loam	Pewamo	85	Depressions	Yes	2,3
	Blount	10	Flats on end moraines,rises on ground moraines,rises on end moraines,flats on ground moraines	No	—
	Algiers	5	Flood plains	No	—
Pe: Pewamo silty clay loam	Pewamo	85	Depressions	Yes	2,3
	Glynwood	5	Ground moraines,end moraines	No	—
	Montgomery	5	Depressions	Yes	2,3
	Blount	5	Flats on ground moraines,flats on end moraines,rises on ground moraines,rises on end moraines	No	—
Pg: Pits, gravel	Pits	100	—	Unranked	—
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	—
St: Stonelick sandy loam, occasionally flooded	Stonelick	90	Flood plains	No	—
	Genesee	5	Flood plains	—	—
	sand and gravel at the surface	3	—	—	—
	Sloan	2	Oxbows	Yes	2,3,4
Ud: Udorthents	Udorthents	100	—	Unranked	—
W: Water	Water	100	—	Unranked	—

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Wb: Walkkill silty clay loam	Walkkill	90	Stream terraces	Yes	2,3,4
	Algiers	4	Flood plains	No	—
	Montgomery	3	Depressions	Yes	2,3
	Pewamo	3	Depressions	Yes	2,3
WdA: Warsaw Variant silt loam, 0 to 2 percent slopes	Warsaw Variant	85	Kames,outwash plains,terraces	No	—
	Eldean	5	Outwash terraces,end moraines,kames	—	—
	sand and gravel at less than 24 inches	5	—	—	—
	sand and gravel at more than 40 inches	5	—	—	—

Data Source Information

Soil Survey Area: Shelby County, Ohio
 Survey Area Data: Version 14, Sep 19, 2014