

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.
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- 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—OH085-Lake County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Ad: Adrian muck	Adrian	90	Depressions	Yes	1,3,4
	Organic layer less than 16 inches thick	5	Depressions	Yes	1,3,4
	Carlisle	5	Depressions	Yes	1,3,4
As: Allis silt loam	Allis	95	Lake plains	Yes	2
	Darien	5	Till plains,moraines	No	—
Bs: Beaches	Beaches	100	—	Unranked	—
Cg: Carlisle muck	Carlisle	95	Marshes	Yes	1,3,4
	16 to 51 inches of muck	5	Marshes	Yes	1,3,4
CoB: Colonie loamy fine sand, 2 to 6 percent slopes	Colonie	95	Beach ridges	No	—
	Elnora	5	Longshore bars (relict),beach ridges	—	—
CoD: Colonie loamy fine sand, 6 to 18 percent slopes	Colonie	95	Lake plains,beach ridges,outwash plains,dunes	No	—
	Eroded soils	5	—	—	—
CoF: Colonie loamy fine sand, 25 to 50 percent slopes	Colonie	85	Lake plains,beach ridges,outwash plains,dunes	No	—
	Oshtemo	5	Terraces	—	—
	Otisville	5	Beaches,terraces,eskers,kames	—	—
	Tyner	5	Beach ridges on lake plains,beach plains on lake plains	—	—
CtA: Conneaut silt loam, 0 to 1 percent slopes	Conneaut	95	Lake plains	Yes	2
	Swanton	5	Lake plains,deltas,outwash plains	Yes	2
CtB: Conneaut silt loam, 1 to 4 percent slopes	Conneaut	90	Lake plains	No	—
	Slopes of 5 to 8 percent	5	—	—	—
	Eroded soils	5	—	—	—
CwA: Conneaut silt loam, shale substratum, 0 to 2 percent slopes	Conneaut	100	Lake 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)
CxA: Conotton loam, 0 to 2 percent slopes	Conotton	90	Terraces	No	—
	Gravelly loam surface layer	5	—	—	—
	Oshtemo	5	Terraces	—	—
CyB: Conotton gravelly loam, 2 to 6 percent slopes	Conotton	90	Terraces	No	—
	Oshtemo	5	Terraces	—	—
	Till at 3 to 5 feet	5	—	—	—
CyC: Conotton gravelly loam, 6 to 15 percent slopes	Conotton	95	Terraces	No	—
	Eroded soils	5	—	—	—
DaA: Darien silt loam, 0 to 1 percent slopes	Darien	95	Till plains,moraines	No	—
	Poorly drained soils	5	Depressions	Yes	2
DaB: Darien silt loam, 1 to 4 percent slopes	Darien	90	Till plains,moraines	No	—
	Mitiwanga	5	Till plains	—	—
	Slopes of 5 to 6 percent	5	—	—	—
DaC: Darien silt loam, 6 to 12 percent slopes	Darien	90	Till plains,moraines	No	—
	Channery silt loam surface layer	5	—	—	—
	Mitiwanga	5	Till plains	—	—
Dc: Dumps, covered	Dumps	100	—	Unranked	—
DhB: Darien-Hornell silt loams, 2 to 6 percent slopes	Darien	48	End moraines,ground moraines	No	—
	Hornell	42	End moraines,ground moraines	No	—
	Soils with bedrock within 10 to 20 inches	5	—	—	—
	Mill	5	End moraines,ground moraines	Yes	2
	Soils with less clay in subsoil similar to Hornell		—	—	—
	Similar to Darien; bedrock within 60 to 80 inches		—	—	—
Du: Dumps, chemical waste	Dumps	100	—	Unranked	—
EIB: Ellsworth silt loam, 2 to 6 percent slopes	Ellsworth	85	Till plains	No	—
	Mahoning	10	Till plains	No	—

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	Trumbull	5	Till plains	Yes	2
EIC: Ellsworth silt loam, 6 to 12 percent slopes	Ellsworth	90	Till plains	No	—
	Mahoning	10	Till plains	No	—
EID: Ellsworth silt loam, 12 to 18 percent slopes	Ellsworth	90	Till plains	No	—
	Brecksville	5	Till plains	No	—
	Mahoning	5	Till plains	No	—
EIF: Ellsworth silt loam, 25 to 70 percent slopes	Ellsworth	85	Till plains	No	—
	Brecksville	15	Till plains	No	—
EmC: Ellsworth silt loam, shale substratum, 6 to 12 percent slopes	Ellsworth-Shale substratum	85	Till plains	No	—
	Mahoning	10	Till plains	No	—
	Brecksville	5	Till plains	No	—
EmD: Ellsworth silt loam, shale substratum, 12 to 18 percent slopes	Ellsworth-Shale substratum	85	Till plains	No	—
	Mahoning	10	Till plains	No	—
	Brecksville	5	Till plains	No	—
EnB: Elnora loamy fine sand, 1 to 5 percent slopes	Elnora	90	Longshore bars (relict), beach ridges	No	—
	Colonie	5	Lake plains, beach ridges, outwash plains, dunes	—	—
	Stafford	5	Barrier beaches, beach ridges	—	—
EuA: Euclid silt loam, 0 to 2 percent slopes	Euclid	90	Terraces	No	—
	Stratified soils	5	—	—	—
	Tioga Variant	5	Flood plains	—	—
FcA: Fitchville silt loam, 1 to 4 percent slopes	Fitchville	85	Lake plains, terraces	No	—
	Poorly drained soils	5	Drainageways, depressions	Yes	2
	Glenford	5	Lake plains, terraces	—	—
	Fine sandy loam or sandy loam surface layer	5	—	—	—
GfA: Glenford silt loam, 0 to 2 percent slopes	Glenford	90	Terraces	No	—
	Areas stratified below 60 inches	5	—	—	—

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	Fitchville	5	Lake plains,terraces	—	—
GfB: Glenford silt loam, 2 to 6 percent slopes	Glenford	85	Terraces	No	—
	Slopes of 6 to 10 percent	10	—	—	—
	Fitchville	5	Lake plains,terraces	—	—
GoF: Gosport silty clay loam, 25 to 70 percent slopes	Gosport	90	Hills	No	—
	Areas with colluvium on the surface	5	—	—	—
	Excessively drained, shallow soils	5	—	—	—
Gr: Granby sandy loam	Granby	90	Depressions	Yes	2,3
	Swanton	5	Lake plains,deltas,outwash plains	Yes	2
	Loamy sand surface layer	5	Depressions	Yes	2,3
HaA: Harbor fine sandy loam, 0 to 3 percent slopes	Harbor	87	Longshore bars (relict) on lake plains,deltas on lake plains,beach ridges on lake plains	No	—
	Painesville	10	Lake plains	—	—
	Conneaut	3	Lake plains	—	—
	Soils with depth to till between 40 and 60 inches		—	—	—
	Soils with silty lacustrine sediments in the substratum		—	—	—
	Soils with loamy fine sand or loam texture in surface layer		—	—	—
Ho: Holly silt loam, frequently flooded	Holly	85	Flood plains	Yes	2,4
	Sloan	4	Flood plains	Yes	2
	very dark gray surface	4	Flood plains	Yes	2,4
	Orrville	4	Flood plains	No	—
	till above 40 inches	3	Flood plains	Yes	2,4
HrA: Hornell silt loam, 0 to 2 percent slopes	Hornell	95	Lake plains,till plains	No	—
	Soils with bedrock starting at 10 to 20 inches	5	—	—	—

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	Soils with bedrock starting at 40 to 60 inches		—	—	—
	Soils with less clay in the subsoil		—	—	—
HrB: Hornell silt loam, 2 to 6 percent slopes	Hornell	90	Lake plains,till plains	No	—
	Soils with bedrock starting at 10 to 20 inches	10	—	—	—
	Soils with bedrock starting at 40 to 60 inches		—	—	—
	Soils with less clay in the subsoil		—	—	—
Kf: Kingsville fine sand	Kingsville	95	Beach ridges	Yes	2,3
	Stafford	5	Barrier beaches,beach ridges	No	—
Lb: Lobdell silt loam	Lobdell	85	Flood plains	No	—
	Orrville	5	Flood plains	—	—
	Tioga	5	Flood plains	—	—
	Stony or gravelly textures in the subsoil and substratum	5	—	—	—
LrB: Lordstown channery silt loam, 2 to 6 percent slopes	Lordstown	85	Hills	No	—
	Wetter soils	10	—	—	—
	Excessively drained, shallow soils	5	—	—	—
LrC: Lordstown channery silt loam, 6 to 12 percent slopes	Lordstown	85	Hills	No	—
	Slopes of 12 to 18 percent	5	—	—	—
	Excessively drained, shallow soils	5	—	—	—
	Wetter soils	5	—	—	—
LxF: Lordstown-Rock outcrop complex, 25 to 70 percent slopes	Lordstown	50	Hills	No	—
	Rock outcrop	30	—	Unranked	—
	Stony or very stony soils	10	—	—	—
	Excessively drained, shallow soils	5	—	—	—
	Seeps	5	—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
MgA: Mahoning silt loam, 0 to 2 percent slopes	Mahoning	85	Till plains	No	—
	Ellsworth	5	Till plains	No	—
	Trumbull	5	Till plains	Yes	2
	Miner	5	Lake plains,till plains	Yes	2,3
MgB: Mahoning silt loam, 2 to 6 percent slopes	Mahoning	85	Till plains	No	—
	Ellsworth	10	Till plains	No	—
	Trumbull	5	Till plains	Yes	2
MhB: Mahoning silt loam, shale substratum, 2 to 6 percent slopes	Mahoning-Shale substratum	85	Till plains	No	—
	Trumbull	10	Till plains	Yes	2
	Hornell	5	Till plains	No	—
Mk: Otego silt loam, frequently flooded	Otego	95	Flood plains	No	—
	Somewhat poorly drained; less silt and more clay in subsoil	5	—	—	—
	Soils with less silt and more clay in the subsoil		—	—	—
	Soils with less silt and more sand in the subsoil		—	—	—
	Soils with a seasonal high water table deeper than 24 inches		—	—	—
Mm: Mill silt loam	Mill	86	End moraines,ground moraines	Yes	2
	Somewhat poorly drained soils with a fragipan	7	—	No	—
	Poorly drained soils with a fragipan	5	—	—	—
	Fitchville soils with a till substratum	2	—	No	—
	Soils that are somewhat poorly drained		—	No	—
	Soils with less sand and more silt in the subsoil		—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Mo: Minoa fine sandy loam	Minoa	90	Lake plains	No	—
	Slopes of 2 to 4 percent	5	—	—	—
	Stafford	5	Barrier beaches, beach ridges	—	—
MtA: Mitiwanga silt loam, 0 to 2 percent slopes	Mitiwanga	90	Till plains	No	—
	Darien	5	Till plains, moraines	—	—
	Slopes of 2 to 4 percent	5	—	—	—
Or: Orrville silt loam	Orrville	85	Flood plains	No	—
	Tioga	4	Flood plains	—	—
	Poorly drained soils	4	Depressions	Yes	2
	Lobdell	4	Flood plains	—	—
	Bedrock at 30 to 40 inches	3	—	—	—
OsA: Oshtemo sandy loam, 0 to 2 percent slopes	Oshtemo	95	Terraces	No	—
	Tyner	5	Beach ridges on lake plains, beach plains on lake plains	—	—
OsB: Oshtemo sandy loam, 2 to 6 percent slopes	Oshtemo	90	Terraces	No	—
	Slopes of 6 to 10 percent	5	—	—	—
	Tyner	5	Beach ridges on lake plains, beach plains on lake plains	—	—
OtB: Otisville gravelly loamy sand, 1 to 6 percent slopes	Otisville	95	Beaches, terraces, eskers, kames	No	—
	Tyner	5	Beach ridges on lake plains, beach plains on lake plains	—	—
Pa: Painesville fine sandy loam	Painesville	90	Lake plains	No	—
	Stafford	5	Barrier beaches, beach ridges	—	—
	Conneaut	5	Depressions	Yes	2
PeB: Pierpont silt loam, 2 to 6 percent slopes	Pierpont	85	Till plains, moraines	No	—
	Platea	10	Till plains, moraines	—	—
	Eroded soils	5	—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
PeB2: Pierpont silt loam, 2 to 6 percent slopes, moderately eroded	Pierpont	90	Till plains,moraines	No	—
	Platea	5	Till plains,moraines	—	—
	Uneroded soils	5	—	—	—
PeC2: Pierpont silt loam, 6 to 12 percent slopes, moderately eroded	Pierpont	85	Till plains,moraines	No	—
	Platea	15	Till plains,moraines	—	—
PeD2: Pierpont silt loam, 12 to 18 percent slopes, moderately eroded	Pierpont	85	Till plains,moraines	No	—
	Platea	15	Till plains,moraines	—	—
Po: Pits, gravel	Pits	100	—	Unranked	—
PsA: Platea silt loam, 0 to 2 percent slopes	Platea	95	Till plains,moraines	No	—
	Poorly drained soils	5	Depressions	Yes	2
PsB: Platea silt loam, 2 to 6 percent slopes	Platea	90	Till plains,moraines	No	—
	Eroded soils	5	—	—	—
	Pierpont	5	Till plains,moraines	—	—
PtB: Platea-Darien silt loams, 2 to 6 percent slopes	Platea	50	End moraines,ground moraines	No	—
	Darien	39	End moraines,ground moraines	No	—
	Moderately well drained; less silt & more sand; no fragipan	6	—	—	—
	Mill	5	Ground moraines	Yes	2
	Soil with clay accumulation in horizon above the fragipan		—	—	—
	Similar to Darien; less clay and more silt in subsoil		—	—	—
RhA: Red Hook sandy loam, 0 to 2 percent slopes	Red Hook	85	Terraces,outwash plains	No	—
	Tyner Variant	5	Beach ridges on lake plains,beach plains on lake plains	—	—
	Painesville	5	Lake plains	—	—
	Poorly drained soils	5	Depressions	Yes	2

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RkB: Red Hook silt loam, 2 to 6 percent slopes	Red Hook	85	Outwash terraces,outwash plains	No	—
	Poorly drained soils with more clay in the subsoil	10	Outwash terraces,outwash plains	Yes	2
	Chenango	5	Terraces,eskers,outwash plains,kames	—	—
	Soils with less rock fragments in some part of the profile		—	—	—
	More than 35 percent rock fragments in the subsoil		—	—	—
	Soils with less sand and more silt or clay in the subsoil		—	—	—
Rv: Riverwash	Riverwash	100	—	Unranked	—
St: Stafford loamy fine sand	Stafford	90	Barrier beaches,beach ridges	No	—
	Kingsville	5	Depressions	Yes	2,3
	Elnora	5	Longshore bars (relict),beach ridges	—	—
Sw: Swanton fine sandy loam	Swanton	95	Lake plains	Yes	2
	Granby	5	Lake plains	Yes	2
Tg: Tioga loam	Tioga	90	Flood plains	No	—
	Orrville	5	Flood plains	—	—
	Stony or channery textures below 2 feet	5	—	—	—
Th: Tioga Variant silt loam	Tioga Variant	90	Flood plains	No	—
	Slopes of 3 to 4 percent	5	—	—	—
	Euclid	5	Terraces	—	—
ToD: Towerville silt loam, 12 to 18 percent slopes	Towerville	100	End moraines,ground moraines	No	—
	Soils with a seasonal high water table deeper than 2 feet		—	—	—
	Soils with bedrock within 40 to 60 inches		—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
TyB: Tyner loamy sand, 1 to 6 percent slopes	Tyner	85	Beach ridges on lake plains, beach plains on lake plains	No	—
	Otisville	5	Beaches, terraces, eskers, kames	—	—
	Sandy loam substratum	5	—	—	—
	Tyner Variant	5	Beach ridges on lake plains, beach plains on lake plains	—	—
TyC: Tyner loamy sand, 6 to 12 percent slopes	Tyner	95	Beach ridges on lake plains, beach plains on lake plains	No	—
	Otisville	5	Beaches, terraces, eskers, kames	—	—
TzA: Tyner Variant sandy loam	Tyner Variant	90	Beach ridges on lake plains, beach plains on lake plains	No	—
	Tyner	5	Beach ridges on lake plains, beach plains on lake plains	—	—
	Red Hook	5	Terraces, outwash plains	—	—
UdB: Udorthents, gently sloping	Udorthents	95	—	No	—
	Slopes of 0 to 2 percent	5	—	—	—
UdD: Udorthents, moderately steep	Udorthents	100	—	No	—
Ur: Urban land	Urban land	100	—	Unranked	—
W: Water	Water	100	—	Unranked	—

Data Source Information

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