

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—OH035-Cuyahoga County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
As: Allis silt loam	Allis	95	Lake plains	Yes	2
	Hornell	5	Till plains	No	—
At: Allis-Urban land complex	Allis	55	Lake plains	Yes	2
	Urban land	30	—	Unranked	—
BgB: Bogart loam, 2 to 6 percent slopes	Hornell	15	Till plains	No	—
	Bogart	85	Stream terraces,end moraines	No	—
	Ellsworth	5	Till plains	No	—
	Jimtown	5	Terraces	No	—
BhB: Bogart-Urban land complex, undulating	Mahoning	5	Till plains	No	—
	Bogart	50	Stream terraces,end moraines	No	—
	Urban land	35	—	Unranked	—
	Haskins	5	Till plains,lake plains	No	—
BrF: Brecksville silt loam, 25 to 70 percent slopes	Chili	5	Terraces	No	—
	Jimtown	5	Terraces	No	—
	Brecksville	85	Drainageways	No	—
	Ellsworth	5	Till plains	No	—
Ca: Canadice silty clay loam	Glenford	5	Lake plains,terraces	No	—
	Holly	5	Flood plains	Yes	2
	Canadice	85	Glacial lakes	Yes	2,3
CcA: Caneadea silt loam, 0 to 2 percent slopes	Caneadea	8	Lake plains	No	—
	soils with gravelly sand at 50 to 60 inches	7	Glacial lakes	Yes	2,3
	Canadice	8	Lake plains	Yes	2,3
Cg: Carlisle silty clay loam	soils with a silty clay loam or clay loam till substratum	7	—	—	—
	Carlisle	85	Swales,bogs	Yes	1,3,4
Ch: Chagrin silt loam, occasionally flooded	Canadice	15	Lake plains	Yes	2,3
	Chagrin	85	Flood plains	No	—
	Orrville	15	Flood plains	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
CnA: Chili loam, 0 to 2 percent slopes	Chili	85	Outwash terraces	No	—
	Bogart	15	Terraces	No	—
CnB: Chili loam, 2 to 6 percent slopes	Chili	85	Outwash terraces	No	—
	Bogart	8	Terraces	No	—
	Ellsworth	7	Till plains	No	—
CnC: Chili loam, 6 to 12 percent slopes	Chili	85	Outwash terraces	No	—
	Bogart	15	Terraces	No	—
CoD: Chili gravelly loam, 12 to 18 percent slopes	Chili	85	End moraines, outwash terraces	No	—
	Ellsworth	8	Till plains	No	—
	Jimtown	7	Terraces	No	—
Ct: Condit silty clay loam	Condit	85	Depressions on ground moraines	Yes	2,3
	Mahoning	15	Till plains	No	—
Cu: Condit-Urban land complex	Condit	50	Ground moraines	Yes	2,3
	Urban land	35	—	Unranked	—
	Mahoning	8	Till plains	No	—
	Miner	7	Depressions	Yes	2,3
DaA: Darien silt loam, 0 to 2 percent slopes	Darien	85	Till plains	No	—
	Mahoning	8	Till plains	No	—
	Mitiwanga	7	Till plains	No	—
DkF: Dekalb-Loudonville complex, 25 to 70 percent slopes	Dekalb	40	Hillsides	No	—
	Loudonville	40	Hillsides	No	—
	Chagrin	7	Flood plains	No	—
	Ellsworth	7	Till plains	No	—
	rock outcrop	6	—	Unranked	—
Du: Dumps	Dumps	100	—	Unranked	—
EIB: Ellsworth silt loam, 2 to 6 percent slopes	Ellsworth	85	Till plains	No	—
	Mahoning	10	Till plains	No	—
	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	—

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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	—
	Urban land	30	—	Unranked	—
EsC: Ellsworth-Urban land complex, 6 to 18 percent slopes	Ellsworth	55	Till plains	No	—
	Urban land	30	—	Unranked	—
	Udorthents	10	—	Unranked	—
	Mahoning	5	Till plains	No	—
EuA: Euclid silt loam	Euclid	85	Stream terraces	No	—
	Tioga Variant	15	Flood plains	No	—
FcA: Fitchville silt loam, 0 to 2 percent slopes	Fitchville	85	Glacial lakes,terraces	No	—
	Glenford	8	Lake plains,terraces	No	—
	Sebring	7	Lake plains	Yes	2,3
FcB: Fitchville silt loam, 2 to 6 percent slopes	Fitchville	85	Knolls on terraces,glacial lakes	No	—
	Glenford	8	Lake plains,terraces	No	—
	Sebring	7	Lake plains	Yes	2,3
GeF: Geeburg-Mentor silt loams, 25 to 70 percent slopes	Geeburg	50	Terraces	No	—
	Mentor	35	Terraces	No	—
	Oshtemo	5	Terraces	No	—
	Chagrin	5	Flood plains	No	—
	Ellsworth	5	Till plains	No	—
GfB: Glenford silt loam, 2 to 6 percent slopes	Glenford	85	Knolls on lake plains,terraces	No	—
	Fitchville	8	Lake plains,terraces	No	—
	Mentor	7	Lake plains	No	—
GfC: Glenford silt loam, 6 to 12 percent slopes	Glenford	85	Drainageways	No	—
	Mentor	15	Lake plains	No	—
HaA: Haskins loam, 0 to 2 percent slopes	Haskins	85	Terraces,beach ridges	No	—
	Jimtown	5	Terraces	No	—
	Mahoning	5	Till plains	No	—
	Mermill	5	Depressions	Yes	2,3

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HaB: Haskins loam, 2 to 6 percent slopes	Haskins	85	Terraces,beach ridges	No	—
	Jimtown	8	Terraces	No	—
	Mahoning	7	Till plains	No	—
HbA: Haskins-Urban land complex, nearly level	Haskins	50	Terraces,beach ridges	No	—
	Urban land	35	—	Unranked	—
	Jimtown	5	Terraces	No	—
	Mahoning	5	Till plains	No	—
Ho: Holly silt loam, frequently flooded	Holly	85	Flood plains	Yes	2
	Orrville	15	Flood plains	No	—
HrB: Hornell silt loam, 2 to 6 percent slopes	Hornell	85	—	No	—
	Allis	8	Lake plains	Yes	2
	Brecksville	7	Hills	No	—
HrC: Hornell silt loam, 6 to 12 percent slopes	Hornell	85	Drainageways,ridges	No	—
	Brecksville	15	Hills	No	—
HrD: Hornell silt loam, 12 to 18 percent slopes	Hornell	85	Drainageways,ridges	No	—
	Brecksville	15	Hills	No	—
HsC: Hornell-Urban land complex, rolling	Hornell	55	—	No	—
	Urban land	35	—	Unranked	—
	Allis	10	Lake plains	Yes	2
JtA: Jimtown loam, 0 to 3 percent slopes	Jimtown	85	Terraces	No	—
	Haskins	15	Till plains,lake plains	No	—
JuA: Jimtown-Urban land complex, nearly level	Jimtown	40	Terraces,beach ridges	No	—
	Urban land	30	—	Unranked	—
	Haskins	8	Till plains,lake plains	No	—
	Bogart	7	Terraces	No	—
LoB: Loudonville silt loam, 2 to 6 percent slopes	Loudonville	85	Ridges	No	—
	Mitiwanga	8	Till plains	No	—
	Ellsworth	7	Till plains	No	—

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LoC: Loudonville silt loam, 6 to 12 percent slopes	Loudonville	85	Ridges	No	—
	Mitiwanga	8	Till plains	No	—
	Ellsworth	7	Till plains	No	—
LoD: Loudonville silt loam, 12 to 18 percent slopes	Loudonville	85	Hillsides	No	—
	Ellsworth	15	Till plains	No	—
LuC: Loudonville-Urban land complex, rolling	Loudonville	50	Ridges	No	—
	Urban land	35	—	Unranked	—
	Mitiwanga	8	Till plains	No	—
	Ellsworth	7	Till plains	No	—
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	Till plains,lake 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
MmB: Mahoning-Urban land complex, 2 to 6 percent slopes	Mahoning	45	Till plains	No	—
	Urban land	30	—	Unranked	—
	Udorthents	10	—	Unranked	—
	Ellsworth	10	Till plains	No	—
	Trumbull	5	Till plains	Yes	2
Mo: Mermill loam	Mermill	85	Depressions on lake plains	Yes	2,3
	Haskins	8	Till plains,lake plains	No	—
	Miner	7	Depressions	Yes	2,3
Mr: Miner silty clay loam, 0 to 2 percent slopes	Miner	85	Till plains,lake plains	Yes	2,3
	Trumbull	10	Till plains	Yes	2
	Mahoning	5	Till plains	No	—
	Mitiwanga	85	Lake plains	No	—
MtA: Mitiwanga silt loam, 0 to 2 percent slopes	Darien	8	Till plains,moraines	No	—
	poorly drained soils	7	—	—	—

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MtB: Mitiwanga silt loam, 2 to 6 percent slopes	Mitiwanga	85	Till plains	No	—
	Darien	8	Till plains,moraines	No	—
	Loudonville	7	Hills	No	—
MxB: Mitiwanga-Urban land complex, undulating	Mitiwanga	45	Till plains	No	—
	Urban land	35	—	Unranked	—
	Darien	10	Till plains,moraines	No	—
Or: Orrville silt loam, frequently flooded	Loudonville	10	Hills	No	—
	Orrville	85	Flood plains	No	—
	Tioga	5	Flood plains	No	—
OsA: Oshtemo sandy loam, 0 to 2 percent slopes	Chagrin	5	Flood plains	No	—
	Holly	5	Flood plains	Yes	2
	Oshtemo	85	Outwash terraces	No	—
OsB: Oshtemo sandy loam, 2 to 6 percent slopes	Chili	8	Terraces	No	—
	Mentor	7	Lake plains	No	—
	Oshtemo	85	Outwash terraces,beach ridges	No	—
OsF: Oshtemo sandy loam, 25 to 55 percent slopes	Chili	8	Terraces	No	—
	Mentor	7	Lake plains	No	—
	Oshtemo	85	Terraces	No	—
OtB: Oshtemo-Urban land complex, undulating	Mentor	8	Lake plains	No	—
	Oshtemo	45	Outwash terraces,beach ridges	No	—
	Urban land	40	—	Unranked	—
Pg: Pits, gravel	Chili	8	Terraces	No	—
	Mentor	7	Lake plains	No	—
	Pits, gravel	100	—	Unranked	—
Pt: Pits, quarry	Pits, quarry	100	—	Unranked	—
RsB: Rittman silt loam, 2 to 6 percent slopes	Rittman	85	Knolls on till plains,drainageways on till plains	No	—
	Wadsworth	8	Till plains	No	—
	Ellsworth	7	Till plains	No	—

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RsC: Rittman silt loam, 6 to 12 percent slopes	Rittman	85	Drainageways,ridges	No	—
	Ellsworth	8	Till plains	No	—
	eroded soils	7	—	—	—
Sb: Sebring silt loam	Sebring	85	Glacial lakes,terraces	Yes	2,3
	Fitchville	8	Lake plains,terraces	No	—
	Canadice	7	Lake plains	Yes	2,3
St: Stafford variant sandy loam	Stafford variant	85	Lake plains	No	—
	Haskins	15	Till plains,lake plains	No	—
Tg: Tioga loam, frequently flooded	Tioga	85	Flood plains	No	—
	Orrville	15	Flood plains	No	—
Th: Tioga variant loam	Tioga variant	85	Stream terraces	No	—
	Euclid	15	Terraces	No	—
Ua: Udorthents, loamy	Udorthents	100	—	Unranked	—
Ub: Urban land	Urban land	100	—	Unranked	—
Uc: Urban land-Allis complex	Urbanland	70	—	Unranked	—
	Allis	20	Lake plains	Yes	2
	Mitiwanga	5	Till plains	No	—
Uc: Urban land-Allis complex	Hornell	5	Till plains	No	—
	Urban land	70	—	Unranked	—
	Elnora	20	Ridges on lake plains	No	—
UeA: Urban land-Elnora complex, nearly level	Haskins	2	Till plains,lake plains	No	—
	Oshtemo	2	Terraces	No	—
	Stafford Variant	2	Lake plains	No	—
	Jimtown	2	Terraces	No	—
	Fitchville	2	Lake plains,terraces	No	—
	Urban land	60	—	Unranked	—
UmB: Urban land-Mahoning complex, 2 to 6 percent slopes	Mahoning	20	Till plains	No	—
	Udorthents	10	—	Unranked	—
	Trumbull	5	Till plains	Yes	2
	Ellsworth	5	Till plains	No	—
UnB: Urban land-Mitiwanga complex, undulating	Urban land	70	—	Unranked	—
	Mitiwanga	20	Till plains	No	—
	Darien	3	Till plains,moraines	No	—
	Allis	3	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)
	Loudonville	2	Hills	No	—
	Hornell	2	Till plains	No	—
UoB: Urban land-Oshtemo complex, undulating	Urban land	70	—	Unranked	—
	Oshtemo	20	Beach ridges	No	—
	Chili	5	Terraces	No	—
	Mentor	5	Lake plains	No	—
W: Water	Water	100	—	Unranked	—
WaA: Wadsworth silt loam, 0 to 2 percent slopes	Wadsworth	85	—	No	—
	Mahoning	15	Till plains	No	—
WaB: Wadsworth silt loam, 2 to 6 percent slopes	Wadsworth	85	Knolls	No	—
	Rittman	5	Till plains	No	—
	Fitchville	5	Lake plains,terraces	No	—
	Mahoning	5	Till plains	No	—

Data Source Information

Soil Survey Area: Cuyahoga County, Ohio
 Survey Area Data: Version 13, Sep 19, 2014