

## 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—OH125-Paulding County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
BeB: Belmore loam, till substratum, 2 to 6 percent slopes	Belmore	88	Outwash terraces, beach ridges, outwash plains	No	—
	Millgrove	4	Depressions	Yes	2
	somewhat poorly drained soils	4	—	—	—
	Mermill	4	Depressions	Yes	2
BkA: Bixler loamy sand, clayey substratum, 0 to 2 percent slopes	Bixler	92	Beach ridges on outwash plains, rises on lake plains, rises on outwash plains, beach ridges on lake plains	No	—
	Very poorly drained soils	8	Depressions, drainage ways	Yes	2,3
BrB2: Broughton silty clay loam, 2 to 6 percent slopes, eroded	Broughton	93	Lake plains	No	—
	Paulding	7	Drainageways	Yes	2,3
BrC2: Broughton silty clay loam, 6 to 12 percent slopes, eroded	Broughton	95	Lake plains	No	—
	Wabasha	5	Drainageways	Yes	2,4
BrD2: Broughton silty clay loam, 12 to 18 percent slopes, eroded	Broughton	95	Lake plains	No	—
	Wabasha	5	Drainageways	Yes	2,4
BrE2: Broughton silty clay loam, 18 to 35 percent slopes, eroded	Broughton	95	Lake plains	No	—
	Wabasha	5	Drainageways	Yes	2,4
BsC3: Broughton silty clay, 6 to 12 percent slopes, severely eroded	Broughton	95	Lake plains	No	—
	Wabasha	5	Drainageways	Yes	2,4
BsD3: Broughton silty clay, 12 to 18 percent slopes, severely eroded	Broughton	95	Lake plains	No	—
	Wabasha	5	Drainageways	Yes	2,4
Db: Defiance silty clay loam, occasionally flooded	Defiance	93	Flood plains	No	—
	Saranac	7	Abandoned channels, depressions	Yes	2
Dc: Defiance silty clay loam, frequently flooded	Defiance	93	Flood plains	No	—
	Wabasha	7	Depressions, abandoned channels	Yes	2,4

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Fb: Flatrock silt loam, occasionally flooded	Flatrock	97	Flood plains	No	—
	rarely flooded areas	3	—	—	—
Fc: Flatrock silt loam, frequently flooded	Flatrock	97	Flood plains	No	—
	Wabasha	3	Abandoned channels	Yes	2,4
FtA: Fulton loam, 0 to 2 percent slopes	Fulton	94	Lake plains	No	—
	Latty	3	Depressions, drainage ways	Yes	2
	Toledo	3	Depressions, drainage ways	Yes	2
FuA: Fulton silty clay loam, 0 to 2 percent slopes	Fulton	94	Lake plains	No	—
	Latty	3	Drainageways, depressions	Yes	2
	Toledo	3	Depressions, drainage ways	Yes	2
FuB2: Fulton silty clay loam, 2 to 6 percent slopes, eroded	Fulton	95	Lake plains	No	—
	Latty	5	Drainageways	Yes	2
FxA: Fulton silty clay loam, loamy substratum, 0 to 2 percent slopes	Fulton	95	Lake plains	No	—
	Toledo	5	Depressions, drainage ways	Yes	2
FxB: Fulton silty clay loam, loamy substratum, 2 to 6 percent slopes	Fulton	95	Lake plains	No	—
	Toledo	5	Drainageways	Yes	2
Gr: Granby loamy sand, clayey substratum	Granby	92	Depressions on flats	Yes	2
	Tedrow	8	Beach ridges on lake plains, beach ridges on outwash plains, dunes on lake plains, dunes on outwash plains	No	—
HaA: Haskins loamy sand, 0 to 2 percent slopes	Haskins	88	Lake plains, till plains	No	—
	Fulton	4	Lake plains	No	—
	Merrill	4	Drainageways, depressions	Yes	2
	Nappanee	4	Lake plains	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
HcA: Hoytville silty clay loam, 0 to 1 percent slopes	Hoytville	85-98	Drainageways, flats, depressions	Yes	2
	Nappanee	2-15	Rises on lake plains	No	—
HkA: Haskins loam, 0 to 2 percent slopes	Haskins	95	Lake plains, till plains	No	—
	Mermill	5	Drainageways, depressions	Yes	2
HkB: Haskins loam, 2 to 6 percent slopes	Haskins	95	Till plains, lake plains	No	—
	Mermill	5	Depressions, drainage ways	Yes	2
HtA: Hoytville silty clay, 0 to 1 percent slopes	Hoytville	85-98	Depressions, drainage ways, flats	Yes	2
	Nappanee	2-15	Rises on lake plains	No	—
Kn: Knoxdale silt loam, occasionally flooded	Knoxdale	97	Flood plains	No	—
	rarely flooded areas	3	—	—	—
La: Landes loam, occasionally flooded	Landes	100	Flood plains	No	—
Lb: Latty silty clay loam	Latty	90	Drainageways, flats, depressions	Yes	2
	Fulton	5	Lake plains	No	—
	Nappanee	5	Lake plains	No	—
Lc: Latty silty clay	Latty	95	Drainageways, flats, depressions	Yes	2
	Fulton	3	Lake plains	No	—
	Nappanee	2	Lake plains	No	—
LtA: Lucas silt loam, loamy substratum, 0 to 2 percent slopes	Lucas	95	Lake plains	No	—
	Toledo	5	Drainageways, depressions	Yes	2
LuB2: Lucas silty clay loam, loamy substratum, 2 to 6 percent slopes, eroded	Lucas	95	Lake plains	No	—
	Toledo	5	Drainageways	Yes	2
LuC2: Lucas silty clay loam, loamy substratum, 6 to 12 percent slopes, eroded	Lucas	93	Lake plains	No	—
	Toledo	7	Drainageways	Yes	2
Md: Medway silt loam, occasionally flooded	Medway	100	Flood plains	No	—
Me: Mermill loam	Mermill	92	Drainageways, flats, depressions	Yes	2
	Haskins	8	Till plains, lake plains	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Mg: Millgrove loam, till substratum	Millgrove	85	Drainageways, flats, depressions	Yes	2
	somewhat poorly drained soils	15	—	No	—
NnA: Nappanee loam, 0 to 2 percent slopes	Nappanee	93	Lake plains	No	—
	Latty	7	Drainageways, depressions	Yes	2
NpA: Nappanee silty clay loam, 0 to 2 percent slopes	Nappanee	90	Lake plains	No	—
	Latty	10	Drainageways, depressions	Yes	2
NpB: Nappanee silty clay loam, 2 to 6 percent slopes	Nappanee	95	Lake plains	No	—
	Latty	5	Drainageways	Yes	2
NpB2: Nappanee silty clay loam, 2 to 6 percent slopes, eroded	Nappanee	95	Lake plains	No	—
	Latty	5	Depressions	Yes	2
OsB: Oshtemo sandy loam, till substratum, 2 to 6 percent slopes	Oshtemo	89	Terraces	No	—
	Millgrove	4	Depressions	Yes	2
	somewhat poorly drained soils	4	—	No	—
	rarely flooded areas	3	—	No	—
OtB: Ottokee loamy sand, 0 to 6 percent slopes	Ottokee	95	Dunes on lake plains, beach ridges on lake plains	No	—
	Granby	5	Depressions	Yes	2
	well drained soils		—	No	—
Pc: Paulding clay, 0 to 1 percent slopes	Paulding	85-100	Lakebeds (relict)	Yes	2,3
	Roselms	0-7	Lakebeds (relict)	No	—
	Latty	0-5	Lakebeds (relict)	Yes	2,3
	Rimer	0-3	Lakebeds (relict)	No	—
Pt: Pits, quarry	Pits, quarry	100	—	Unranked	—
RkA: Rimer loamy sand, 0 to 2 percent slopes	Rimer	96	Till plains, lake plains	No	—
	Mermill	4	Depressions, drainage ways	Yes	2
RkB: Rimer loamy sand, 2 to 6 percent slopes	Rimer	96	Till plains, lake plains	No	—
	Mermill	4	Drainageways, depressions	Yes	2

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RmA: Rimer-Fulton complex, 0 to 2 percent slopes	Rimer	64	Till plains,lake plains	No	—
	Fulton	30	Lake plains	No	—
	Latty	6	Drainageways,depressions	Yes	2
RnA: Roselms loam, 0 to 2 percent slopes	Roselms	95	Lake plains,lake plains	No	—
	Paulding	5	Drainageways,depressions	Yes	2,3
RoA: Roselms silty clay loam, 0 to 2 percent slopes	Roselms	97	Lake plains,lake plains	No	—
	Paulding	3	Depressions,drainageways	Yes	2,3
RoB: Roselms silty clay loam, 2 to 6 percent slopes	Roselms	95	Lake plains,lake plains	No	—
	Paulding	5	Drainageways,depressions	Yes	2,3
RpA: Roselms silty clay, 0 to 2 percent slopes	Roselms	95	Lake plains,lake plains	No	—
	Paulding	5	Depressions,drainageways	Yes	2,3
	slopes of 2 to 6 percent		—	—	—
RpB2: Roselms silty clay, 2 to 6 percent slopes, eroded	Roselms	95	Lake plains,lake plains	No	—
	Paulding	5	Drainageways	Yes	2,3
Rt: Rossburg silt loam, occasionally flooded	Rosburg	100	Flood plains	No	—
Sb: Saranac silty clay loam, occasionally flooded	Saranac	90	Flats,depressions	Yes	2
	Defiance	10	Flood plains	No	—
Sh: Shoals silt loam, occasionally flooded	Shoals	93	Flood plains	No	—
	Saranac	7	Abandoned channels,depressions	Yes	2
Sk: Shoals silt loam, frequently flooded	Shoals	93	Flood plains	No	—
	Wabasha	7	Abandoned channels,depressions	Yes	2,4
StB2: St. Clair silty clay loam, 2 to 6 percent slopes, eroded	St. Clair	95	End moraines,lake plains,ground moraines	No	—
	Latty	5	Drainageways,depressions	Yes	2

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StC2: St. Clair silty clay loam, 6 to 12 percent slopes, eroded	St. Clair	97	End moraines,lake plains,ground moraines	No	—
	Latty	3	Drainageways	Yes	2
	slopes of 12 to 18 percent		—	—	—
StD2: St. Clair silty clay loam, 12 to 18 percent slopes, eroded	St. Clair	95	End moraines,lake plains,ground moraines	No	—
	Wabasha	5	Drainageways	Yes	2,4
StE2: St. Clair silty clay loam, 18 to 35 percent slopes, eroded	St. Clair	95	Lake plains,ground moraines,end moraines	No	—
	Wabasha	5	Drainageways	Yes	2,4
SuC3: St. Clair silty clay, 6 to 12 percent slopes, severely eroded	St. Clair	95	End moraines,lake plains,ground moraines	No	—
	Latty	5	Drainageways	Yes	2
SuE3: St. Clair silty clay, 12 to 25 percent slopes, severely eroded	St. Clair	95	Ground moraines,end moraines,lake plains	No	—
	Wabasha	5	Drainageways	Yes	2,4
TeA: Tedrow loamy sand, 0 to 3 percent slopes	Tedrow	93	Beach ridges on lake plains,beach ridges on outwash plains,dunes on lake plains,dunes on outwash plains	No	—
	Granby	7	Depressions	Yes	2
Tn: Toledo silty clay loam	Toledo	95	Flats,drainageways	Yes	2
	Fulton	5	Lake plains	No	—
To: Toledo silty clay	Toledo	95	Drainageways,flats	Yes	2
	Fulton	5	Lake plains	No	—
Uc: Udorthents, clayey, hilly	Udorthents	80	—	No	—
	slopes of 25 to 50 percent	4	—	—	—
	slopes of 0 to 12 percent	4	—	—	—
	Paulding	3	Lake plains	Yes	2,3
	Latty	3	Lake plains	Yes	2
	Fulton	3	Lake plains	—	—
	occasionally flooded areas	3	—	—	—
W: Water	Water	100	—	Unranked	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Wb: Wabasha silty clay loam, frequently flooded	Wabasha	90	Flats,abandoned channels,depressions	Yes	2,4
	Defiance	10	Flood plains	No	—
WhA: Whitaker loam, 0 to 2 percent slopes	Whitaker	100	Stream terraces,lake plains,outwash plains,till plains,valley trains	No	—

### Data Source Information

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