

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—OH015-Brown County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Ag: Algiers silt loam, frequently flooded	Algiers	85	Flood plains,terraces	No	—
	Blanchester	5	Drainageways	Yes	2,3
	ponded areas	4	—	—	—
	moderately well drained soils	3	—	—	—
	Genesee	3	Flood plains	—	—
Ah: Algiers silt loam	Algiers	95	Flood plains,terraces	No	—
	Blanchester	5	Drainageways	Yes	2
	Shoals		Flood plains	—	—
	Eel		Flood plains,flood-plain steps	—	—
	more than 30 inches of recent alluvium		—	—	—
	loam surface layer		—	—	—
	Ross		Flood plains,terraces	—	—
AsB: Atlas silt loam, 2 to 6 percent slopes	Atlas	95	Till plains	No	—
	Clermont	5	Drainageways	Yes	2
	Avonburg		Till plains	—	—
AsB2: Atlas silt loam, 2 to 6 percent slopes, moderately eroded	Atlas	100	Till plains	No	—
	Avonburg		Till plains	—	—
	Rossmoyne		Till plains	—	—
AsC2: Atlas silt loam, 6 to 12 percent slopes, moderately eroded	Atlas	100	Till plains	No	—
	Rossmoyne		Till plains	—	—
	Avonburg		Till plains	—	—
AtC2: Atlas silty clay loam, 6 to 12 percent slopes, eroded	Atlas	85	Till plains	No	—
	Loudon	3	Till plains	—	—
	Jessup	3	Till plains	—	—
	Avonburg	3	Till plains	—	—
	Rossmoyne	3	Till plains	—	—
	severely eroded areas with silty clay loam surface layer	3	—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
BlN3A: Blanchester silty clay loam, 0 to 1 percent slopes	Blanchester	85-100	Flats on till plains	Yes	2,3
	Clermont	0-15	Flats on till plains	Yes	2,3
BoD2: Bonnell silt loam, 15 to 25 percent slopes, eroded	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BoE: Bonnell silt loam, 25 to 40 percent slopes	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BoF: Bonnell silt loam, 40 to 60 percent slopes	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
BrD3: Bonnell silty clay loam, 15 to 25 percent slopes, severely eroded	Bonnell	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	bedrock at less than 40 inches	7	—	—	—
ChF: Chili loam, 35 to 70 percent slopes	Chili	90	Terraces	No	—
	slopes of 15 to 35 percent	5	—	—	—
	Elkinsville	5	Terraces	—	—
Cle1A: Clermont silt loam, 0 to 1 percent slopes	Clermont	85-100	Flats on till plains	Yes	2,3
	Blanchester	0-10	Flats on till plains	Yes	2,3
	Westboro	0-6	Flats on till plains	No	—
	Schaffer	0-4	Flats on till plains	No	—
CnC2: Cincinnati silt loam, 6 to 12 percent slopes, eroded	Cincinnati	90	Till plains	No	—
	Jessup	4	Till plains	—	—
	Loudon	3	Till plains	—	—
	Avonburg	3	Till plains	—	—
EaE: Eden flaggy silt loam, 25 to 40 percent slopes	Eden	85	Hills	No	—
	Faywood	4	Hills	—	—

Hydric Soil List - All Components--OH015-Brown County, Ohio					
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	gently sloping areas	4	—	—	—
	bedrock outcrop	4	—	—	—
	severely eroded areas; calcareous clay or silty clay surface	3	—	—	—
EaF: Eden flaggy silt loam, 40 to 70 percent slopes	Eden	90	Hills	No	—
	Faywood	4	Hills	—	—
	gently sloping areas	3	—	—	—
	bedrock outcrop	3	—	—	—
EbE2: Eden flaggy silty clay loam, 25 to 40 percent slopes, eroded	Eden	85	Hills	No	—
	Lowell	15	Hills	—	—
	less rock fragments in the soil		—	—	—
EbF2: Eden flaggy silty clay loam, 40 to 70 percent slopes, eroded	Eden	85	Hills	No	—
	Lowell	15	Hills	—	—
	less rock fragments in the soil		—	—	—
EdG2: Edenton loam, 25 to 50 percent slopes, moderately eroded	Edenton	90	Till plains	No	—
	severely eroded areas	5	—	—	—
	Hickory	5	Till plains	—	—
	slightly eroded areas		—	—	—
EkB: Elkinsville silt loam, 2 to 6 percent slopes	Elkinsville	85	Terraces	No	—
	Pate	8	Hills	—	—
	Nolin	7	Flood plains	—	—
EkC2: Elkinsville silt loam, 6 to 12 percent slopes, eroded	Elkinsville	80	Terraces	No	—
	Pate	10	Hills	—	—
	Nolin	10	Flood plains	—	—
FbD2: Faywood silty clay loam, 15 to 25 percent slopes, eroded	Faywood	85	Hills	No	—
	Jessup	10	Till plains	—	—
	severely eroded, gullied areas	5	—	—	—
	more than 40 inches to bedrock		—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
FdD2: Faywood silt loam, 15 to 25 percent slopes, eroded	Faywood	85	Hills	No	—
	interbedded shale and limestone bedrock at 10 to 20 inches	5	—	—	—
	slopes of 25 to 35 percent	5	—	—	—
	slopes of 8 to 15 percent	5	—	—	—
FeC2: Faywood-Lowell silt loams, 8 to 15 percent slopes, eroded	Faywood	50	Hills	No	—
	Lowell	35	Hills	No	—
	seasonal high water table in the upper subsoil	5	—	—	—
	moderately steep areas	5	—	—	—
	gently sloping areas	5	—	—	—
FhB: Fitchville silt loam, 2 to 6 percent slopes	Fitchville	95	Lake plains,terraces	No	—
	Westland	5	Depressions,drainage ways	Yes	2
	Sardinia		Terraces	—	—
	moderately eroded areas		—	—	—
Ge: Genesee silt loam, occasionally flooded	Genesee	90	Flood plains	No	—
	Shoals	10	Flood plains	—	—
Gn: Gessie loam, frequently flooded	Gessie	90	Flood plains	No	—
	Newark	10	Flood plains	—	—
	bedrock within 60 inches		—	—	—
	more silt in the soil		—	—	—
HyC3: Hickory clay loam, 6 to 12 percent slopes, severely eroded	Hickory	100	Till plains	No	—
	Boston		Till plains	—	—
	Rossmoyne		Till plains	—	—
	Cincinnati		Till plains	—	—
	Bratton		Hills	—	—
JeC2: Jessup silt loam, 8 to 15 percent slopes, eroded	Jessup	85	Till plains	No	—
	Rossmoyne	5	Till plains	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	moderately well drained soils	5	—	—	—
	gently sloping areas	5	—	—	—
JeD2: Jessup silt loam, 15 to 25 percent slopes, eroded	Jessup	85	Till plains	No	—
	Rossmoyne	8	Till plains	—	—
	moderately well drained soils	7	—	—	—
JoR1A1: Jonesboro-Rossmoyne silt loams, 0 to 2 percent slopes	Jonesboro	40-70	Rises on till plains	No	—
	Rossmoyne	20-50	Rises on till plains	No	—
	Westboro	0-15	Flats on till plains	No	—
	Clermont	0-10	Flats on till plains	Yes	2,3
	Schaffer	0-8	Flats on till plains	No	—
JoR1B1: Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes	Jonesboro	40-70	Rises on till plains	No	—
	Rossmoyne	20-55	Rises on till plains	No	—
	Westboro	0-10	Flats on till plains	No	—
	Schaffer	0-5	Flats on till plains	No	—
JoR1B2: Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes, eroded	Jonesboro-Eroded	40-70	Rises on till plains	No	—
	Rossmoyne-Eroded	20-55	Rises on till plains	No	—
	Westboro	0-10	Flats on till plains	No	—
	Schaffer	0-5	Flats on till plains	No	—
JrC2: Jonesboro-Rossmoyne silt loams, 6 to 12 percent slopes, eroded	Jonesboro	65	Till plains	No	—
	Rossmoyne	20	Till plains	No	—
	Loudon	5	Hills	No	—
	Hickory	5	Hills	No	—
	Nicely	5	Till plains	No	—
Ju: Jules silt loam, frequently flooded	Jules	95	Alluvial fans, flood plains	No	—
	sandy loam or loamy sand throughout	5	—	—	—
LnB: Loudon silt loam, 2 to 6 percent slopes	Loudon	100	Hills	No	—
	Grayford		Till plains	—	—
	Boston		Till plains	—	—
	Rossmoyne		Till plains	—	—

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LnC2: Loudon silt loam, 6 to 12 percent slopes, eroded	Loudon	90	Till plains	No	—
	Nicely	5	Till plains	No	—
	Morrisville	5	Till plains	No	—
LoB2: Loudon silt loam, 3 to 8 percent slopes, eroded	Loudon	85	Hills	No	—
	nearly level areas	3	—	—	—
	Jessup	3	Till plains	—	—
	Rossmoyne	3	Till plains	—	—
	Avonburg	3	Till plains	—	—
LwB2: Lowell silt loam, 3 to 8 percent slopes, eroded	steeper areas	3	—	—	—
	Lowell	85	Hills	No	—
	nearly level areas	8	—	—	—
	bedrock at 20 to 40 inches, on steeper slopes	7	—	—	—
MvD2: Morrisville silty clay loam, 12 to 18 percent slopes, eroded	Morrisville	80	Till plains	No	—
	Nicely	10	Till plains	No	—
	Hickory	10	Hills	No	—
No: Nolin silt loam, occasionally flooded	Nolin	90	Flood plains	No	—
	Elkinsville	5	Terraces	—	—
	short slopes of 10-25%; loam or sandy loam throughout	5	—	—	—
PaC2: Pate silty clay, 8 to 15 percent slopes, eroded	Pate	85	Hills	No	—
	moderately steep areas	8	—	—	—
	nearly level areas	7	—	—	—
PaD2: Pate silty clay, 15 to 25 percent slopes, eroded	Pate	85	Hills	No	—
	steep areas	5	—	—	—
	bedrock outcrop	5	—	—	—
	gently sloping areas	5	—	—	—
PaE2: Pate silty clay, 25 to 35 percent slopes, eroded	Pate	85	Hills	No	—
	moderately steep areas	5	—	—	—

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	bedrock outcrop	5	—	—	—
	gently sloping areas	5	—	—	—
RpC2: Rossmoyne silt loam, 6 to 12 percent slopes, eroded	Rossmoyne	85	Till plains	No	—
	Avonburg	4	Till plains	—	—
	Loudon	4	Till plains	—	—
	Jessup	4	Till plains	—	—
	severely eroded areas with silty clay loam surface layer	3	—	—	—
RrC3: Rossmoyne silty clay loam, 6 to 12 percent slopes, severely eroded	Rossmoyne	100	Till plains	No	—
	Hickory		Till plains	—	—
	Boston		Till plains	—	—
	bedrock outcrop		—	Unranked	—
	steeper areas		—	—	—
	Bratton		Hills	—	—
RwC3: Rossmoyne-Bonnell complex, 6 to 12 percent slopes, severely eroded	Rossmoyne	50	Till plains	No	—
	Bonnell	35	Till plains	No	—
	Loudon	5	Till plains	—	—
	Avonburg	5	Till plains	—	—
	gravelly clay loam surface layer	5	—	—	—
SaB: Sardinia silt loam, 1 to 6 percent slopes	Sardinia	85	Terraces	No	—
	somewhat poorly drained soils	15	—	—	—
SbB: Sardinia silt loam, 2 to 6 percent slopes	Sardinia	95	Terraces	No	—
	severely eroded areas	5	—	—	—
ScA: Sciotoville silt loam, 0 to 2 percent slopes	Sciotoville	85	Terraces	No	—
	Nolin	4	Flood plains	—	—
	somewhat poorly drained soils	4	—	—	—
	Elkinsville	4	Terraces	—	—
	rarely flooded areas	3	—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
SgA: Shoals silt loam, 0 to 1 percent slopes, occasionally flooded	Shoals	90	Flood plains	No	—
	Sligo	5	Flood plains	No	—
	Sloan	5	Depressions on flood plains	Yes	2
Sh: Shoals silt loam, frequently flooded	Shoals	85	Flood plains	No	—
	rarely flooded areas	8	—	—	—
	Genesee	7	Flood plains	—	—
SoA: Sloan silt loam, sandy substratum, 0 to 1 percent slopes, occasionally flooded	Sloan	90	Depressions on flood plains	Yes	2
	Sligo	5	Flood plains	No	—
	Ross	5	Flood plains,terraces	No	—
W: Water	Water	100	—	Unranked	—
WsS1A1: Westboro-Schaffer silt loams, 0 to 2 percent slopes	Westboro	40-70	Flats on till plains	No	—
	Schaffer	20-50	Flats on till plains	No	—
	Clermont	0-15	Flats on till plains	Yes	2,3
	Rossmoyne	0-10	Rises on till plains	No	—
	Jonesboro	0-10	Rises on till plains	No	—
WsS1B1: Westboro-Schaffer silt loams, 2 to 4 percent slopes	Westboro	40-70	Flats on till plains	No	—
	Schaffer	20-50	Flats on till plains	No	—
	Jonesboro	0-15	Rises on till plains	No	—
	Rossmoyne	0-10	Rises on till plains	No	—
	Clermont	0-5	Flats on till plains	Yes	2,3
WvB: Williamsburg silt loam, 2 to 6 percent slopes	Williamsburg	90	Terraces	No	—
	moderately well drained soils	5	—	—	—
	eroded areas	5	—	—	—

Data Source Information

Soil Survey Area: Brown County, Ohio
 Survey Area Data: Version 14, Sep 15, 2014