

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—OH001-Adams County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
AaA: Aaron silt loam, 0 to 2 percent slopes	Aaron	85	Hills,flood plains	No	—
	Nicholson	15	Hills	—	—
	well drained soils		—	—	—
AaB: Aaron silt loam, 2 to 6 percent slopes	Aaron	85	Hills	No	—
	Nicholson	15	Hills	—	—
	well drained soils		—	—	—
BkD: Berks silt loam, 15 to 25 percent slopes	Berks	85	Hills	No	—
	Shelocta	15	Hills	—	—
	less rock fragments in the soil		—	—	—
BnB: Bratton silt loam, 2 to 8 percent slopes	Bratton	85	Hills	No	—
	Opequon	10	Hills	—	—
	sinkholes	5	—	—	—
	more than 40 inches to bedrock		—	—	—
BrC2: Bratton-Opequon complex, 8 to 15 percent slopes, eroded	Bratton	45	Hills	No	—
	Opequon	40	Hills	No	—
	Crider	10	Hills	—	—
	severely eroded areas with silty clay surface layer	5	—	—	—
	sinkholes		—	—	—
BsC2: Brushcreek silt loam, 6 to 12 percent slopes, eroded	Brushcreek	85	Terraces	No	—
	Aaron	10	Hills	—	—
	gullied areas	5	—	—	—
BtD2: Brushcreek-Lawshe complex, 12 to 25 percent slopes, eroded	Brushcreek	55	Terraces	No	—
	Lawshe	30	Hills	No	—
	Jessup	5	Till plains	—	—
	Opequon	5	Hills	—	—
	gullied areas	5	—	—	—

Hydric Soil List - All Components--OH001-Adams County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
CkB: Cincinnati silt loam, 2 to 6 percent slopes	Cincinnati	85	Till plains	No	—
	Jessup	15	Till plains	—	—
	moderately well drained soils		—	—	—
CkC2: Cincinnati silt loam, 6 to 12 percent slopes, eroded	Cincinnati	85	Till plains	No	—
	Jessup	10	Till plains	—	—
	sinkholes	5	—	—	—
	moderately well drained soils		—	—	—
CrB: Crider silt loam, 1 to 6 percent slopes	Crider	80	Hills	No	—
	Bratton	15	Hills	—	—
	sinkholes	5	—	—	—
	less silt in the soil		—	—	—
EaE: Eden flaggy silt loam, 25 to 40 percent slopes	Eden	85	Hills	No	—
	Faywood	4	Hills	—	—
	bedrock outcrop	4	—	—	—
	gently sloping areas	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	—	—
	bedrock outcrop	3	—	—	—
	gently sloping areas	3	—	—	—
EgE2: Eden flaggy silty clay loam, 25 to 40 percent slopes, eroded	Eden	85	Hills	No	—
	Lowell	15	Hills	—	—
	less rock fragments in the soil		—	—	—
EgF2: Eden flaggy silty clay loam, 40 to 70 percent slopes, eroded	Eden	85	Hills	No	—
	Lowell	15	Hills	—	—
	less rock fragments in the soil		—	—	—
EkB: Elkinsville silt loam, 1 to 6 percent slopes	Elkinsville	85	Terraces	No	—
	Sciotoville	8	Terraces	—	—

Hydric Soil List - All Components--OH001-Adams County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Peoga	7	Drainageways	Yes	2
EnB: Elkinsville silt loam, 2 to 6 percent slopes	Elkinsville	85	Terraces	No	—
	Pate	8	Hills	—	—
	Nolin	7	Flood plains	—	—
FaC2: Faywood silt loam, 8 to 15 percent slopes, eroded	Faywood	85	Hills	No	—
	Jessup	10	Till plains	—	—
	severely eroded, gullied areas	5	—	—	—
	more rock fragments in the soil		—	—	—
	more than 40 inches to bedrock		—	—	—
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		—	—	—
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	—	—	—
Ge: Gessie loam, frequently flooded	Gessie	90	Flood plains	No	—
	Newark	10	Flood plains	—	—
	more silt in the soil		—	—	—
	bedrock within 60 inches		—	—	—
JeB: Jessup silt loam, 1 to 8 percent slopes	Jessup	85	Till plains	No	—
	Rossmoyne	15	Till plains	—	—
	moderately well drained soils		—	—	—
JeC2: Jessup silt loam, 8 to 15 percent slopes, eroded	Jessup	85	Till plains	No	—
	Loudon	8	Till plains	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Cincinnati	7	Till plains	—	—
	bedrock at 20 to 40 inches		—	—	—
JeD2: Jessup silt loam, 15 to 25 percent slopes, eroded	Jessup	90	Till plains	No	—
	Cincinnati	10	Till plains	—	—
	bedrock at 20 to 40 inches		—	—	—
JeE2: Jessup silt loam, 25 to 35 percent slopes, eroded	Jessup	90	Till plains	No	—
	Cincinnati	10	Till plains	—	—
	shallower to bedrock		—	—	—
LbC: Latham silt loam, 8 to 15 percent slopes	Latham	85	Hills	No	—
	Berks	8	Hills	—	—
	Wernock	7	Hills	—	—
LbD2: Latham silt loam, 15 to 25 percent slopes, eroded	Latham	85	Hills	No	—
	Berks	5	Hills	—	—
	Shelocta	5	Hills	—	—
	Colyer	5	Hills	—	—
LdD: Latham-Wharton silt loams, 15 to 25 percent slopes	Latham	45	Hills	No	—
	Wharton	35	Hills	No	—
	Brownsville	5	Hills	—	—
	Clifty	5	Flood plains	—	—
	Tilsit	5	Hills	—	—
	bedrock at 10 to 20 inches	5	—	—	—
LkB: Licking silt loam, 1 to 6 percent slopes	Licking	85	Terraces	No	—
	Otwell	15	Terraces	—	—
LkC2: Licking silt loam, 6 to 15 percent slopes, eroded	Licking	85	Terraces	No	—
	Otwell	15	Terraces	—	—
LkD2: Licking silt loam, 15 to 25 percent slopes, eroded	Licking	85	Terraces	No	—
	Otwell	10	Terraces	—	—
	slip-prone soils	5	—	—	—
LoA: Loudon silt loam, 0 to 2 percent slopes	Loudon	85	Hills	No	—
	Rossmoyne	15	Till plains	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	well drained soils		—	—	—
LoB: Loudon silt loam, 2 to 6 percent slopes	Loudon	85	Hills	No	—
	Rossmoyne	15	Till plains	—	—
	well drained soils		—	—	—
LoC2: Loudon silt loam, 6 to 15 percent slopes, eroded	Loudon	85	Hills	No	—
	Rossmoyne	15	Till plains	—	—
	well drained soils		—	—	—
LwB: Lowell silt loam, 2 to 8 percent slopes	Lowell	85	Hills	No	—
	Crider	15	Hills	—	—
	moderately well drained soils		—	—	—
	bedrock at 20 to 40 inches		—	—	—
LwC2: Lowell silt loam, 8 to 15 percent slopes, eroded	Lowell	85	Hills	No	—
	Opequon	15	Hills	—	—
McA: McGary variant silty clay loam, 0 to 3 percent slopes, rarely flooded	McGary Variant	85	Terraces	Yes	2
	Bratton	8	Hills	No	—
	Otwell	7	Terraces	No	—
	darker colored surface layer		Terraces	Yes	2
Ne: Newark silt loam, frequently flooded	Newark	85	Flood plains	Yes	4
	Nolin	15	Flood plains	No	—
NkB: Nicholson silt loam, 1 to 6 percent slopes	Nicholson	85	Hills	No	—
	Lowell	8	Hills	—	—
	Aaron	7	Hills	—	—
No: Nolin silt loam, occasionally flooded	Nolin	85	Flood plains	No	—
	Newark	10	Backswamps, depressions	Yes	4
	frequently flooded areas	5	—	—	—
	moderately well drained soils		—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
OmB: Omulga silt loam, 1 to 6 percent slopes	Omulga	85	Terraces	No	—
	soils with no fragipan	8	—	—	—
	somewhat poorly drained soils	7	—	—	—
OmC2: Omulga silt loam, 6 to 15 percent slopes, eroded	Omulga	85	Terraces	No	—
	soils with no fragipan	8	—	—	—
	somewhat poorly drained soils	7	—	—	—
OpD2: Opequon silty clay loam, 15 to 25 percent slopes, eroded	Opequon	85	Hills	No	—
	Bratton	10	Hills	—	—
	severely eroded, gullied areas	5	—	—	—
	less than 12 inches to bedrock		—	—	—
OpE2: Opequon silty clay loam, 25 to 40 percent slopes, eroded	Opequon	80	Hills	No	—
	Bratton	5	Hills	—	—
	severely eroded, gullied areas	5	—	—	—
	Brushcreek	5	Terraces	—	—
	Lawshe	5	Hills	—	—
	less than 12 inches to bedrock		—	—	—
OsF: Opequon silty clay loam, 40 to 60 percent slopes, very rocky	rocky areas		—	—	—
	Opequon	85	Hills	No	—
	Bratton	5	Hills	—	—
	bedrock escarpments	5	—	—	—
	Brushcreek	3	Terraces	—	—
OtB: Otwell silt loam, 2 to 6 percent slopes	Lawshe	2	Hills	—	—
	Otwell	100	Terraces	No	—
	Dubois		Lake plains	—	—
	Haubstadt		Stream terraces,lake plains, valley trains,kames,moraines	—	—
	Otwell	85	Terraces	No	—
OwB: Otwell silt loam, 1 to 6 percent slopes	Licking	15	Terraces	—	—

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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		—	—	—
OwC2: Otwell silt loam, 6 to 15 percent slopes, eroded	Otwell	85	Terraces	No	—
	Licking	15	Terraces	—	—
OxD3: Opequon clay, 6 to 18 percent slopes, severely eroded	Opequon	100	Hills	No	—
	seeps		—	—	—
	less eroded areas		—	—	—
	Gasconade		Hills	—	—
	Milton		Till plains	—	—
	Bratton		Hills	—	—
Pe: Peoga silt loam	Peoga	85	Terraces	Yes	2
	Elkinsville	8	Terraces	No	—
	Sciotoville	7	Terraces	No	—
Pq: Pits, quarry	Pits	100	—	Unranked	—
PtB: Plainfield sand, 3 to 8 percent slopes	Plainfield	85	Terraces	No	—
	Elkinsville	15	Terraces	—	—
RoB: Rossmoyne silt loam, 1 to 6 percent slopes	Rossmoyne	85	Till plains	No	—
	Avonburg	8	Till plains	—	—
	Loudon	7	Till plains	—	—
	well drained soils		—	—	—
RoC2: Rossmoyne silt loam, 6 to 12 percent slopes, eroded	Rossmoyne	90	Till plains	No	—
	Jessup	5	Till plains	—	—
	Loudon	5	Till plains	—	—
	well drained soils		—	—	—
	soils with no fragipan		—	—	—
SaB: Sardinia silt loam, 1 to 6 percent slopes	Sardinia	85	Terraces	No	—
	Williamsburg	15	Terraces	—	—
SbB: Sardinia silt loam, 2 to 6 percent slopes	Sardinia	95	Terraces	No	—
	Westland	5	Depressions, drainage ways	Yes	2
	Williamsburg		Terraces	—	—
	moderately eroded areas		—	—	—
	Fitchville		Lake plains, terraces	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
ScB: Sciotoville silt loam, 1 to 6 percent slopes	Sciotoville	85	Terraces	No	—
	Elkinsville	8	Terraces	—	—
	Peoga	7	Drainageways	Yes	2
SdB: Sciotoville silt loam, 1 to 8 percent slopes	Sciotoville	98	Terraces	No	—
	Wheeling	1	Terraces	—	—
	Weinbach	1	Terraces	—	—
	rarely flooded areas		—	—	—
ShE: Shelocta-Berks association, steep	Shelocta	55	Hills	No	—
	Berks	35	Hills	No	—
	Latham	5	Hills	—	—
	Wernock	5	Hills	—	—
ShF: Shelocta-Berks association, very steep	Shelocta	55	Hills	No	—
	Berks	35	Hills	No	—
	Wernock	10	Hills	—	—
SkE: Shelocta-Brownsville association, steep	Shelocta	40	Hills	No	—
	Brownsville	40	Hills	No	—
	Berks	10	Hills	—	—
	Ernest	5	Hills	—	—
	Latham	4	Hills	—	—
	bedrock outcrop	1	—	Unranked	—
SkF: Shelocta-Brownsville association, very steep	Shelocta	40	Hills	No	—
	Brownsville	40	Hills	No	—
	Berks	10	Hills	—	—
	Ernest	5	Hills	—	—
	Latham	4	Hills	—	—
	bedrock outcrop	1	—	Unranked	—
SmD: Shelocta-Muse association, hilly	Shelocta	60	Hills	No	—
	Muse	30	Hills	No	—
	Bratton	5	Hills	—	—
	Trappist	5	Hills	—	—
SoE: Shelocta-Muse-Colyer association, steep	Shelocta	55	Hills	No	—
	Muse	25	Hills	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Colyer	15	Hills	No	—
	Berks	2	Hills	—	—
	Trappist	2	Hills	—	—
	slip-prone soils	1	—	—	—
Sp: Skidmore gravelly loam, occasionally flooded	Skidmore	85	Flood plains	No	—
	Nolin	8	Flood plains	—	—
	alluvial fans on slopes of more than 2 percent	7	—	—	—
Sr: Skidmore silt loam, occasionally flooded	Skidmore	85	Flood plains	No	—
	Haymond	10	Flood plains	—	—
	Shelocta	5	Hills	—	—
TkA: Tilsit silt loam, 0 to 3 percent slopes	Tilsit	85	Hills	No	—
	Wernock	15	Hills	—	—
	soils with no fragipan, and shallower to bedrock		—	—	—
TrB: Trappist silt loam, 3 to 8 percent slopes	Trappist	85	Hills	No	—
	Colyer	15	Hills	—	—
	moderately well drained soils		—	—	—
TrC: Trappist silt loam, 8 to 15 percent slopes	Trappist	80	Hills	No	—
	Muse	20	Hills	—	—
	moderately well drained soils		—	—	—
TrD2: Trappist silt loam, 15 to 25 percent slopes, eroded	Trappist	80	Hills	No	—
	Shelocta	10	Hills	—	—
	Muse	10	Hills	—	—
	moderately well drained soils		—	—	—
TsF: Trappist-Shelocta association, steep	Trappist	40	Hills	No	—
	Shelocta	35	Hills	No	—
	Blairton	5	Hills	—	—
	Brownsville	4	Hills	—	—
	Clifty	4	Flood plains	—	—
	Coolville	4	Hills	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	sandstone and shale bedrock outcrops	4	—	—	—
	well drained soils with bedrock at 10 to 20 inches	4	—	—	—
Ud: Udorthents, silty	Udorthents	100	—	Unranked	—
W: Water	Water	100	—	Unranked	—
WgC: Wernock silt loam, 8 to 15 percent slopes	Wernock	85	Hills	No	—
	Berks	15	Hills	—	—
	more rock fragments in the soil		—	—	—
WmB: Williamsburg silt loam, 1 to 6 percent slopes	Williamsburg	85	Terraces	No	—
	Sardinia	15	Terraces	—	—
	loam surface layer		—	—	—
WmC2: Williamsburg silt loam, 6 to 15 percent slopes, eroded	Williamsburg	85	Terraces	No	—
	Licking	8	Terraces	—	—
	Otwell	7	Terraces	—	—
	loam surface and subsurface layers		—	—	—
	moderately well drained soils		—	—	—
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
	Jonesboro	0-10	Rises on till plains	No	—
	Rossmoyne	0-10	Rises on till plains	No	—

Data Source Information

Soil Survey Area: Adams County, Ohio
 Survey Area Data: Version 11, Oct 3, 2012