

## 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—OH025-Clermont County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
AdC: Alluvial land, sloping	Alluvial land	96	—	Unranked	—
	nearly level areas	4	—	—	—
	gently sloping areas		—	—	—
AwA: Avonburg-Urban land complex, nearly level	Avonburg	60	Till plains	No	—
	Urban land	35	—	Unranked	—
	Rossmoyne	5	Till plains	—	—
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	—	—	—
CcB: Cincinnati silt loam, 2 to 6 percent slopes	Cincinnati	95	Till plains	No	—
	Rossmoyne	5	Till plains	—	—
CcB2: Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded	Cincinnati	90	Till plains	No	—
	Rossmoyne	10	Till plains	—	—
	severely eroded areas		—	—	—
CcC2: Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded	Cincinnati	90	Till plains	No	—
	Edenton	5	Hills	—	—

Hydric Soil List - All Components--OH025-Clermont County, Ohio					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	severely eroded areas	5	—	—	—
	slightly eroded areas		—	—	—
CcD2: Cincinnati silt loam, 12 to 18 percent slopes, moderately eroded	Cincinnati	95	Till plains	No	—
	Edenton	5	Hills	—	—
CkD3: Cincinnati and Hickory soils, 12 to 25 percent slopes, severely eroded	Cincinnati	60	Till plains	No	—
	Hickory	35	Till plains	No	—
	slightly eroded areas	5	—	—	—
	moderately eroded areas		—	—	—
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	—	—
Cu: Cut and fill land	Cut and fill land	100	—	Unranked	—
EaD2: Eden flaggy silty clay loam, 12 to 18 percent slopes, moderately eroded	Eden	85	Hills	No	—
	Fairmount	5	Ridges,hills	—	—
	Cincinnati	5	Till plains	—	—
	severely eroded areas	5	—	—	—
	steeper areas		—	—	—
	slightly eroded areas		—	—	—
EaE: Eden flaggy silt loam, 25 to 40 percent slopes	Eden	85	Hills	No	—
	gently sloping areas	4	—	—	—
	bedrock outcrop	4	—	—	—
	Faywood	4	Hills	—	—
	severely eroded areas; calcareous clay or silty clay surface	3	—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
EaE2: Eden flaggy silty clay loam, 18 to 25 percent slopes, moderately eroded	Eden	85	Hills	No	—
	Fairmount	5	Ridges,hills	—	—
	Cincinnati	5	Till plains	—	—
	severely eroded areas	5	—	—	—
	steeper areas		—	—	—
	slightly eroded areas		—	—	—
EaF: Eden flaggy silt loam, 40 to 70 percent slopes	Eden	90	Hills	No	—
	Faywood	4	Hills	—	—
	bedrock outcrop	3	—	—	—
	gently sloping areas	3	—	—	—
EaF2: Eden flaggy silty clay loam, 25 to 50 percent slopes, moderately eroded	Eden	90	Hills	No	—
	severely eroded areas	5	—	—	—
	Fairmount	5	Ridges,hills	—	—
	slightly eroded areas		—	—	—
EbC2: Edenton loam, 6 to 12 percent slopes, moderately eroded	Edenton	90	Till plains	No	—
	Cincinnati	5	Till plains	—	—
	severely eroded areas	5	—	—	—
	slightly eroded areas		—	—	—
EbD2: Edenton loam, 12 to 18 percent slopes, moderately eroded	Edenton	95	Till plains	No	—
	Hickory	5	Till plains	—	—
	slightly eroded areas		—	—	—
EbE2: Edenton loam, 18 to 25 percent slopes, moderately eroded	Edenton	95	Till plains	No	—
	Hickory	5	Till plains	—	—
	slightly eroded areas		—	—	—
EbG2: 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		—	—	—

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EcE3: Edenton clay loam, 12 to 25 percent slopes, severely eroded	Edenton	90	Till plains	No	—
	Hickory	5	Till plains	—	—
	Cincinnati	5	Till plains	—	—
EdG3: Edenton and Fairmount soils, 25 to 50 percent slopes, severely eroded	Edenton	55	Till plains	No	—
	Fairmount	45	Ridges,hills	No	—
	Eden		Hills	—	—
Ee: Eel silt loam	Eel	98	Flood plains	No	—
	Sloan	2	Depressions,swales	Yes	2
	loam surface layer		—	—	—
	sandy loam surface layer		—	—	—
EkB: Elkinsville silt loam, 2 to 6 percent slopes	Elkinsville	85	Terraces	No	—
	Pate	8	Hills	—	—
	Nolin	7	Flood plains	—	—
FaE2: Fairmount very flaggy silty clay loam, 18 to 25 percent slopes, moderately eroded	Fairmount	95	Hills,ridges	No	—
	Eden	5	Hills	—	—
FaG2: Fairmount very flaggy silty clay loam, 25 to 50 percent slopes, moderately eroded	Fairmount	95	Ridges,hills	No	—
	Eden	5	Hills	—	—
FdD2: Faywood silt loam, 15 to 25 percent slopes, eroded	Faywood	85	Hills	No	—
	slopes of 8 to 15 percent	5	—	—	—
	interbedded shale and limestone bedrock at 10 to 20 inches	5	—	—	—
	slopes of 25 to 35 percent	5	—	—	—
FnB: Fox silt loam, 2 to 6 percent slopes	Fox	100	Terraces	No	—
	moderately eroded areas		—	—	—
	loam surface layer		—	—	—
	gravelly areas on surface		—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	nearly level areas		—	—	—
FnC2: Fox silt loam, 6 to 12 percent slopes, moderately eroded	Fox	95	Terraces	No	—
	Ockley	5	Terraces	—	—
	slightly eroded areas		—	—	—
	loam surface layer		—	—	—
FuB: Fox-Urban land complex, gently sloping	Fox	65	Terraces	No	—
	Urban land	35	—	Unranked	—
	sloping areas		—	—	—
Gn: Genesee silt loam	Genesee	100	Flood plains	No	—
	more acidic topsoil and subsoil		—	—	—
	Eel		Flood plains, flood-plain steps	—	—
	loam surface layer		—	—	—
	more than 40 inches to carbonates		—	—	—
GpB: Glenford silt loam, 2 to 6 percent slopes	Glenford	100	Terraces	No	—
	nearly level areas		—	—	—
	moderately eroded areas		—	—	—
GpC2: Glenford silt loam, 6 to 12 percent slopes, moderately eroded	Glenford	95	Terraces	No	—
	severely eroded	5	—	—	—
	slightly eroded		—	—	—
GpE2: Glenford silt loam, 18 to 25 percent slopes, moderately eroded	Glenford	100	Terraces	No	—
	moderately steep areas		—	—	—
Gr: Gravel pits	Gravel pits	100	—	Unranked	—
HkD2: Hickory loam, 12 to 18 percent slopes, moderately eroded	Hickory	100	Till plains	No	—
	slightly eroded areas		—	—	—
HkF2: Hickory loam, 18 to 35 percent slopes, moderately eroded	Hickory	100	Till plains	No	—
	slightly eroded areas		—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
HIG3: Hickory clay loam, 25 to 50 percent slopes, severely eroded	Hickory	95	Till plains	No	—
	very severely eroded areas	5	—	—	—
Hu: Huntington silt loam	Huntington	100	Flood plains	No	—
	gently sloping areas		—	—	—
	loam surface layer		—	—	—
	heavy silt loam subsoil		—	—	—
JeC2: Jessup silt loam, 8 to 15 percent slopes, eroded	Jessup	85	Till plains	No	—
	moderately well drained soils	5	—	—	—
	gently sloping areas	5	—	—	—
	Rossmoyne	5	Till plains	—	—
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	—
Lg: Lanier sandy loam	Lanier	95	Flood plains	No	—
	Riverwash	5	—	Unranked	—
	less gravel in substratum		—	—	—
Ln: Lindside silt loam	Lindside	92	Flood plains	No	—
	fragic properties in subsoil	5	—	—	—
	Sloan	3	Depressions,swales	Yes	2
	dense subsoil material		—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
Mb: Mahalassville silty clay loam	Mahalassville	100	Depressions	Yes	2,3
	more clay in the subsoil		Depressions	Yes	2,3
	silt loam surface layer		Depressions	Yes	2,3
MdB: Markland silt loam, 2 to 6 percent slopes	Markland	100	Terraces	No	—
	McGary		Terraces	—	—
MgA: McGary silt loam, 0 to 2 percent slopes	McGary	100	Terraces	No	—
	gently sloping areas		—	—	—
Mh: Medway silt loam, overwash	Medway	97	Flood plains	No	—
	Sloan	3	Depressions,swales	Yes	2
	Shoals		Flood plains	—	—
	thicker overwash		—	—	—
	darker colored surface layer		—	—	—
Ne: Newark silt loam, 0 to 2 percent slopes, occasionally flooded	Newark-Occasionally flooded	90	Flood plains	No	—
	Lindside-Occasionally flooded	5	Flood plains	No	—
	Nolin-Occasionally flooded	3	Flood plains	No	—
	Melvin-Occasionally flooded	2	Flood plains	Yes	2
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	—	—	—
OcA: Ockley silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	Ockley	80-95	Outwash terraces	No	—
	Fox	0-10	Terraces,outwash plains	No	—
	Eldean	0-10	Outwash terraces	No	—
	Sleeth	0-10	Outwash terraces,stream terraces	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
OcB: Ockley silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes	Ockley	80-90	Outwash terraces	No	—
	Sleeth	0-10	Outwash terraces, stream terraces	No	—
	Fox	0-10	Terraces, outwash plains	No	—
	Eldean	0-10	Outwash terraces	No	—
OdA: Ockley-Urban land complex, nearly level	Ockley	65	Terraces	No	—
	Urban land	35	—	Unranked	—
	gently sloping areas		—	—	—
	Williamsburg		Terraces	—	—
PbD2: Pate silty clay, 15 to 25 percent slopes, eroded	Pate	85	Hills	No	—
	bedrock outcrop	5	—	—	—
	gently sloping areas	5	—	—	—
	steep areas	5	—	—	—
Rh: Riverwash	Riverwash	100	—	Unranked	—
RkD2: Rodman and Casco loams, 12 to 18 percent slopes, moderately eroded	Rodman	55	Terraces	No	—
	Casco	45	Outwash terraces, outwash plains	No	—
	Fox		Terraces	—	—
RkE2: Rodman and Casco loams, 18 to 25 percent slopes, moderately eroded	Rodman	55	Terraces	No	—
	Casco	45	Outwash terraces, outwash plains	No	—
	Fox		Terraces	—	—
Rn: Ross silt loam	Ross	100	Flood plains, terraces	No	—
	Sloan		Sloughs, oxbows	Yes	2
RpC2: Rossmoyne silt loam, 6 to 12 percent slopes, moderately eroded	Rossmoyne	92	Till plains	No	—
	Edenton	5	Hills	—	—
	Clermont	3	Drainageways	Yes	2,3
RsC3: Rossmoyne silty clay loam, 6 to 12 percent slopes, severely eroded	Rossmoyne	95	Till plains	No	—
	slightly eroded areas	5	—	—	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	well drained areas		—	—	—
RtB: Rossmoyne-Urban land complex, gently sloping	Rossmoyne	65	Till plains	No	—
	Urban land	35	—	Unranked	—
	Avonburg		Till plains	—	—
RtC: Rossmoyne-Urban land complex, sloping	Rossmoyne	60	Till plains	No	—
	Urban land	35	—	Unranked	—
	Hickory	5	Till plains	—	—
	Cincinnati		Till plains	—	—
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	—	—	—
SaA: Sardinia silt loam, 0 to 2 percent slopes	Sardinia	97	Terraces	No	—
	very poorly drained soil	3	Depressions,swales	Yes	2
	somewhat poorly drained areas		—	—	—
	well drained areas		—	—	—
SaB: 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	—
	somewhat poorly drained soils	4	—	—	—
	Elkinsville	4	Terraces	—	—
	Nolin	4	Flood plains	—	—
	rarely flooded areas	3	—	—	—
SeC2: Sees silty clay loam, 4 to 12 percent slopes, moderately eroded	Sees	100	Hills	No	—
	lighter colored surface horizon		—	—	—

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SeD2: Sees silty clay loam, 12 to 18 percent slopes, moderately eroded	Sees	100	Hills	No	—
	lighter colored surface horizon		—	—	—
Sg: Shoals silt loam, frequently flooded	Shoals	85	Flood plains	No	—
	rarely flooded areas	8	—	—	—
	Genesee	7	Flood plains	—	—
Sh: Shoals silt loam	Shoals	95	Flood plains	No	—
	Sloan	3	Depressions,swales	Yes	2
	frequently ponded areas	1	—	—	—
	frequently flooded areas	1	—	—	—
	areas of darker colored soils		—	—	—
	Medway		Flood plains	—	—
St: Stonelick sandy loam	Stonelick	100	Flood plains	No	—
Ud: Udorthents	Udorthents	100	—	Unranked	—
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
	Jonesboro	0-10	Rises on till plains	No	—
	Rossmoyne	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 and Martinsville silt loams, 2 to 6 percent slopes	Williamsburg	55	Terraces	No	—
	Martinsville	45	Terraces	No	—
	areas of reddish brown subsoil		—	—	—
	moderately eroded areas		—	—	—

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WvC2: Williamsburg and Martinsville silt loams, 6 to 12 percent slopes, moderately eroded	Williamsburg	55	Terraces	No	—
	Martinsville	45	Terraces	No	—
	loam surface layer		—	—	—
WvD2: Williamsburg and Martinsville silt loams, 12 to 18 percent slopes, moderately eroded	Williamsburg	55	Terraces	No	—
	Martinsville	45	Terraces	No	—
	slightly eroded areas		—	—	—
	loam surface layer		—	—	—

## Data Source Information

Soil Survey Area: Clermont County, Ohio  
 Survey Area Data: Version 13, Sep 18, 2014