

Hydric Soils

Orleans County, Vermont

[This report lists only those map unit components that are rated as hydric. Dashes (---) in any column indicate that the data were not included in the database. Definitions of hydric criteria codes are included at the end of the report] Dominant components that are hydric are highlighted.

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
2A:					
Peacham mucky peat, 0 to 8 percent slopes, very stony	Peacham, very stony	78	Hills, Mountains	Yes	2, 3
	Cabot, very stony	11	Hills, Mountains	Yes	2
	Wonsqueak	8	Hills, Mountains	Yes	1, 3
	Bucksport	2	Hills, Mountains	Yes	1, 3
	Searsport	1	Hills, Mountains	Yes	2, 3
3B:					
Vershire-Lombard complex, 3 to 8 percent slopes, rocky	Cabot, rocky	4	Depressions, Drainageways, Hills	Yes	2
3C:					
Vershire-Lombard complex, 8 to 15 percent slopes, rocky	Cabot, rocky	4	Depressions, Drainageways, Hills	Yes	2
3D:					
Vershire-Lombard complex, 15 to 25 percent slopes, rocky	Cabot, rocky	4	Depressions, Drainageways, Hills	Yes	2
5B:					
Nicholville very fine sandy loam, 3 to 8 percent slopes	Roundabout	10	Depressions, Drainageways, Lake terraces	Yes	2
5C:					
Nicholville very fine sandy loam, 8 to 15 percent slopes	Roundabout	12	Depressions, Drainageways, Lake terraces	Yes	2
5D:					
Nicholville very fine sandy loam, 15 to 25 percent slopes	Roundabout	10	Depressions, Drainageways, Lake terraces	Yes	2
6B:					
Vershire-Lombard complex, 3 to 8 percent slopes, very stony	Cabot, very stony	4	Depressions, Drainageways, Hills	Yes	2
6C:					
Vershire-Lombard complex, 8 to 15 percent slopes, very stony	Cabot, very stony	4	Depressions, Drainageways, Hills	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
6D: Vershire-Lombard complex, 15 to 35 percent slopes, very stony	Cabot, very stony	4	Depressions, Drainageways, Hills	Yes	2
8A: Roundabout silt loam, 0 to 3 percent slopes	Roundabout	76	Lake terraces	Yes	2
	Moosilauke	5	Lake terraces	Yes	2
	Scantic	5	Lake terraces	Yes	2
	Wonsqueak	3	Depressions, Drainageways, Lake terraces	Yes	1, 3
	Charles	1	Flood plains	Yes	2
12C: Tunbridge-Lyman complex, 8 to 15 percent slopes, very rocky	Cabot, very rocky	5	Hills, Mountains	Yes	2
12D: Tunbridge-Lyman complex, 15 to 35 percent slopes, very rocky	Cabot, very rocky	4	Hills, Mountains	Yes	2
12E: Tunbridge-Lyman complex, 35 to 60 percent slopes, very rocky	Cabot, very rocky	1	Hills, Mountains	Yes	2
14A: Irasburg loamy fine sand, 0 to 3 percent slopes	Nasmith	10	Depressions, Drainageways, Lake terraces	Yes	2
14B: Irasburg loamy fine sand, 3 to 8 percent slopes	Nasmith	5	Depressions, Drainageways, Lake terraces	Yes	2
14C: Irasburg loamy fine sand, 8 to 15 percent slopes	Nasmith	4	Depressions, Drainageways, Lake terraces	Yes	2
14D: Irasburg loamy fine sand, 15 to 25 percent slopes	Nasmith	4	Depressions, Drainageways, Lake terraces	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
14E: Irasburg loamy fine sand, 25 to 50 percent slopes	Nasmith	2	Depressions, Drainageways, Lake terraces	Yes	2
15B: Peru fine sandy loam, 3 to 8 percent slopes	Cabot	4	Hills, Mountains	Yes	2
15C: Peru fine sandy loam, 8 to 15 percent slopes	Cabot	4	Hills, Mountains	Yes	2
15D: Peru fine sandy loam, 15 to 25 percent slopes	Cabot	3	Hills, Mountains	Yes	2
16B: Peru fine sandy loam, 0 to 8 percent slopes, very stony	Pillsbury, very stony	4	Hills, Mountains	Yes	2
16C: Peru fine sandy loam, 8 to 15 percent slopes, very stony	Cabot, very stony	4	Hills, Mountains	Yes	2
16D: Peru fine sandy loam, 15 to 35 percent slopes, very stony	Cabot, very stony	4	Hills, Mountains	Yes	2
16E: Peru fine sandy loam, 35 to 60 percent slopes, very stony	Cabot, very stony	5	Hills, Mountains	Yes	2
17B: Buckland loam, 3 to 8 percent slopes	Cabot	8	Hills	Yes	2
17C: Buckland loam, 8 to 15 percent slopes	Cabot	7	Hills	Yes	2
17D: Buckland loam, 15 to 25 percent slopes	Cabot	7	Hills	Yes	2
18B: Buckland loam, 0 to 8 percent slopes, very stony	Cabot, very stony	12	Hills	Yes	2
18C: Buckland loam, 8 to 15 percent slopes, very stony	Cabot, very stony	6	Hills	Yes	2
18D: Buckland loam, 15 to 35 percent slopes, very stony	Cabot, very stony	10	Hills	Yes	2
18E: Buckland loam, 35 to 60 percent slopes, very stony	Cabot, very stony	4	Hills	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
21A: Nasmith loamy fine sand, 0 to 3 percent slopes	Nasmith	77	Lake terraces	Yes	2
	Roundabout	10	Lake terraces	Yes	2
	Searsport	5	Depressions, Drainageways, Lake terraces	Yes	2, 3
	Moosilauke	3	Lake terraces	Yes	2
26A: Adams loamy fine sand, 0 to 3 percent slopes	Moosilauke	1	Depressions, Drainageways, Outwash plains, Outwash terraces	Yes	2
26B: Adams loamy fine sand, 3 to 8 percent slopes	Moosilauke	1	Depressions, Drainageways, Outwash plains, Outwash terraces	Yes	2
26C: Adams loamy fine sand, 8 to 15 percent slopes	Moosilauke	1	Depressions, Drainageways, Outwash plains, Outwash terraces	Yes	2
26D: Adams loamy fine sand, 15 to 25 percent slopes	Moosilauke	1	Depressions, Drainageways, Outwash terraces	Yes	2
27A: Croghan loamy fine sand, 0 to 3 percent slopes	Moosilauke	7	Depressions, Drainageways, Outwash plains, Stream terraces	Yes	2
27B: Croghan loamy fine sand, 3 to 8 percent slopes	Moosilauke	10	Depressions, Drainageways, Outwash plains, Stream terraces	Yes	2
31A: Sheepscot gravelly fine sandy loam, 0 to 3 percent slopes	Moosilauke	5	Depressions, Drainageways, Outwash plains, Stream terraces	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
31B: Sheepscot gravelly fine sandy loam, 3 to 8 percent slopes	Moosilauke	14	Depressions, Drainageways, Outwash plains, Stream terraces	Yes	2
33A: Moosilauke very fine sandy loam, 0 to 3 percent slopes	Moosilauke	84	Outwash plains, Stream terraces	Yes	2
	Nasmith	5	Outwash plains, Stream terraces	Yes	2
	Searsport	5	Depressions, Drainageways, Outwash plains, Stream terraces	Yes	2, 3
	Rumney	1	Flood plains	Yes	2
38A: Colton-Duxbury complex, 0 to 3 percent slopes	Moosilauke	3	Depressions, Drainageways, Outwash plains, Outwash terraces	Yes	2
38B: Colton-Duxbury complex, 3 to 8 percent slopes	Moosilauke	1	Depressions, Drainageways, Outwash plains, Outwash terraces	Yes	2
38C: Colton-Duxbury complex, 8 to 15 percent slopes	Moosilauke	5	Depressions, Drainageways, Outwash plains, Outwash terraces	Yes	2
38D: Colton-Duxbury complex, 15 to 25 percent slopes	Moosilauke	2	Depressions, Drainageways, Outwash terraces	Yes	2
38E: Colton-Duxbury complex, 25 to 60 percent slopes	Moosilauke	2	Depressions, Drainageways, Outwash terraces	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
47A: Cabot silt loam, 0 to 3 percent slopes	Cabot	83	Hills, Mountains	Yes	2
	Peacham	5	Hills, Mountains	Yes	2, 3
47B: Cabot silt loam, 3 to 8 percent slopes	Cabot	83	Hills, Mountains	Yes	2
	Peacham	5	Hills, Mountains	Yes	2, 3
47C: Cabot silt loam, 8 to 15 percent slopes	Cabot	84	Hills, Mountains	Yes	2
	Peacham	4	Hills, Mountains	Yes	2, 3
50A: Scantic silt loam, 0 to 3 percent slopes	Scantic	85	Marine terraces	Yes	2
	Biddeford	3	Marine terraces	Yes	2, 3
	Roundabout	2	Marine terraces	Yes	2
54B: Salmon very fine sandy loam, 3 to 8 percent slopes	Roundabout	3	Depressions, Drainageways, Lake terraces	Yes	2
54C: Salmon very fine sandy loam, 8 to 15 percent slopes	Roundabout	3	Depressions, Drainageways, Lake terraces	Yes	2
54D: Salmon very fine sandy loam, 15 to 25 percent slopes	Roundabout	3	Depressions, Drainageways, Lake terraces	Yes	2
54E: Salmon very fine sandy loam, 25 to 50 percent slopes	Roundabout	3	Depressions, Drainageways, Lake terraces	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
58B:					
Lamoine silt loam, 3 to 8 percent slopes	Scantic	10	Depressions, Drainageways, Lake plains	Yes	2
	Roundabout	3	Depressions, Drainageways, Lake plains	Yes	2
58C:					
Lamoine silt loam, 8 to 15 percent slopes	Scantic	5	Depressions, Drainageways, Lake plains	Yes	2
	Roundabout	3	Depressions, Drainageways, Lake plains	Yes	2
58D:					
Lamoine silt loam, 15 to 25 percent slopes	Scantic	3	Depressions, Drainageways, Lake plains	Yes	2
58E:					
Lamoine silt loam, 25 to 50 percent slopes	Scantic	2	Depressions, Drainageways, Lake plains	Yes	2
59B:					
Cabot silt loam, 0 to 8 percent slopes, very stony	Cabot, very stony	80	Hills, Mountains	Yes	2
	Peacham, very stony	6	Hills, Mountains	Yes	2, 3
	Wonsqueak, very stony	2	Hills, Mountains	Yes	1, 3
59C:					
Cabot silt loam, 8 to 15 percent slopes, very stony	Cabot, very stony	85	Hills, Mountains	Yes	2
	Peacham	4	Hills, Mountains	Yes	2, 3
60A:					
Rumney fine sandy loam, 0 to 3 percent slopes, frequently flooded	Rumney	84	Flood plains	Yes	2
	Medomak	6	Flood plains	Yes	2, 3, 4
	Charles	3	Flood plains	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
70A:					
Bucksport muck, 0 to 2 percent slopes, ponded	Bucksport, ponded	75	Marshes	Yes	1, 3
	Wonsqueak	15	Marshes	Yes	1, 3
72A:					
Charles silt loam, 0 to 2 percent slopes, frequently flooded	Charles	85	Flood plains	Yes	2
	Rumney	6	Flood plains	Yes	2
	Medomak	3	Flood plains	Yes	2, 4
	Wonsqueak	2	Swamps	Yes	1, 3
76A:					
Podunk fine sandy loam, 0 to 3 percent slopes, occasionally flooded	Rumney	6	Flood plains	Yes	2
	Charles	2	Flood plains	Yes	2
79A:					
Medomak mucky silt loam, 0 to 2 percent slopes, frequently flooded	Medomak	75	Flood plains	Yes	2, 3, 4
	Wonsqueak	15	Flood plains	Yes	1, 3
	Charles	10	Flood plains, Rises	Yes	2
83A:					
Wonsqueak and Pondicherry mucks, 0 to 2 percent slopes	Wonsqueak	57	Swamps	Yes	1, 3
	Pondicherry	20	Swamps	Yes	1, 3
	Medomak	10	Flood plains	Yes	2, 3, 4
	Bucksport	5	Swamps	Yes	1, 3
	Peacham	5	Swamps	Yes	2, 3
	Cabot	3	Rises, Swamps	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
84A: Bucksport muck, 0 to 2 percent slopes	Bucksport	70	Swamps	Yes	1, 3
	Wonsqueak	15	Swamps	Yes	1, 3
	Medomak	10	Flood plains	Yes	2, 3, 4
	Peacham	5	Swamps	Yes	2, 3
88D: Lyman-Rock outcrop complex, 15 to 35 percent slopes	Cabot, very stony	3	Hills, Mountains	Yes	2
92B: Monadnock fine sandy loam, 3 to 8 percent slopes	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
92C: Monadnock fine sandy loam, 8 to 15 percent slopes	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
92D: Monadnock fine sandy loam, 15 to 25 percent slopes	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
93B: Monadnock fine sandy loam, 3 to 8 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
93C: Monadnock fine sandy loam, 8 to 15 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
93D: Monadnock fine sandy loam, 15 to 35 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
93E: Monadnock fine sandy loam, 35 to 60 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
94C: Vershire-Glover complex, 8 to 15 percent slopes, very rocky	Cabot, very rocky	3	Depressions, Drainageways, Hills	Yes	2
94D: Vershire-Glover complex, 15 to 35 percent slopes, very rocky	Cabot, very rocky	3	Depressions, Drainageways, Hills	Yes	2
94E: Vershire-Glover complex, 35 to 60 percent slopes, very rocky	Cabot, very rocky	3	Depressions, Drainageways, Hills	Yes	2
96B: Dummerston very fine sandy loam, 3 to 8 percent slopes	Cabot	4	Depressions, Drainageways, Hills	Yes	2
96C: Dummerston very fine sandy loam, 8 to 15 percent slopes	Cabot	4	Depressions, Drainageways, Hills	Yes	2
96D: Dummerston very fine sandy loam, 15 to 25 percent slopes	Cabot	2	Depressions, Drainageways, Hills	Yes	2
97B: Dummerston very fine sandy loam, 3 to 8 percent slopes, very stony	Cabot	4	Depressions, Drainageways, Hills	Yes	2
97C: Dummerston very fine sandy loam, 8 to 15 percent slopes, very stony	Cabot	4	Depressions, Drainageways, Hills	Yes	2
97D: Dummerston very fine sandy loam, 15 to 35 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills	Yes	2
97E: Dummerston very fine sandy loam, 35 to 60 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills	Yes	2
100B: Tunbridge-Peru complex, 3 to 8 percent slopes, rocky	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
100C: Tunbridge-Peru complex, 8 to 15 percent slopes, rocky	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
100D: Tunbridge-Peru complex, 15 to 25 percent slopes, rocky	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
101B: Tunbridge-Peru complex, 3 to 8 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
101C: Tunbridge-Peru complex, 8 to 15 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
101D: Tunbridge-Peru complex, 15 to 35 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
101E: Tunbridge-Peru complex, 35 to 60 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
112D: Hogback-Rawsonville complex, 15 to 35 percent slopes, very rocky	Cabot	4	Depressions, Drainageways, Mountains	Yes	2
112E: Hogback-Rawsonville complex, 35 to 60 percent slopes, very rocky	Cabot	4	Depressions, Drainageways, Mountains	Yes	2
247B: Colonel-Cabot complex, 3 to 8 percent slopes	Cabot	25	Hills, Mountains	Yes	2
	Peacham	2	Hills, Mountains	Yes	2, 3
247C: Colonel-Cabot complex, 8 to 15 percent slopes	Cabot	25	Hills, Mountains	Yes	2
	Peacham	2	Hills, Mountains	Yes	2, 3
247D: Colonel-Cabot complex, 15 to 25 percent slopes	Cabot	25	Hills, Mountains	Yes	2
	Peacham	2	Hills, Mountains	Yes	2, 3

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
259B: Colonel-Cabot complex, 3 to 8 percent slopes, very stony	Cabot, very stony	25	Hills, Mountains	Yes	2
	Peacham, very stony	2	Hills, Mountains	Yes	2, 3
259C: Colonel-Cabot complex, 8 to 15 percent slopes, very stony	Cabot, very stony	25	Hills, Mountains	Yes	2
	Peacham, very stony	2	Hills, Mountains	Yes	2, 3
259D: Colonel-Cabot complex, 15 to 35 percent slopes, very stony	Cabot, very stony	25	Hills, Mountains	Yes	2
	Peacham, very stony	2	Hills, Mountains	Yes	2, 3
301C: Tunbridge-Peru complex, 3 to 15 percent slopes, extremely bouldery	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
301D: Tunbridge-Peru complex, 15 to 35 percent slopes, extremely bouldery	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
301E: Tunbridge-Peru complex, 35 to 60 percent slopes, extremely bouldery	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
316C: Peru fine sandy loam, 3 to 15 percent slopes, extremely bouldery	Cabot, extremely bouldery	4	Hills, Mountains	Yes	2
316D: Peru fine sandy loam, 15 to 35 percent slopes, extremely bouldery	Cabot, extremely bouldery	4	Hills, Mountains	Yes	2
316E: Peru fine sandy loam, 35 to 60 percent slopes, extremely bouldery	Cabot, extremely bouldery	5	Hills, Mountains	Yes	2
359C: Cabot silt loam, 0 to 15 percent slopes, extremely bouldery	Cabot, extremely bouldery	83	Hills, Mountains	Yes	2
	Peacham	6	Hills, Mountains	Yes	2, 3
393D: Monadnock fine sandy loam, 15 to 35 percent slopes, extremely bouldery	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2

Hydric Soils

Orleans County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
393E: Monadnock fine sandy loam, 35 to 60 percent slopes, extremely bouldery	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2

Hydric Soils

This table lists the map unit components that are rated as hydric soils 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, 2003) 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 others, 2002).

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, 2B3). 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. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
 - B. are poorly drained or very poorly drained and have either:
 - 1) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
 - 2) a water table at a depth of 0.5 foot or less during the growing season if permeability is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
 - 3) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 in/hr in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for long or very long duration during the growing season.
4. Soils that are frequently flooded for long or very long duration during the growing season.

References:

- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Hurt, G.W., P.M. Whited, and R.F. Pringle, editors. Version 5.0, 2002. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.
- Soil Survey Staff. 2003. Keys to soil taxonomy. 9th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.
- 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.
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.