

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, 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:

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- 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.
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Report—Hydric Soils

Hydric Soils--Liberty County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
5—Rains and Bladen soils				
	Rains	50	Flats on fluviomarine terraces, drainageways on fluviomarine terraces	2
	Bladen	45	Flats on fluviomarine terraces, drainageways on fluviomarine terraces	2
8—Brickyard clay loam, frequently flooded				
	Brickyard	75	— error in exists on —	2, 4
	Chowan	2	Flood plains on marine terraces	2, 4
12—Rutlege and Plummer soils, depressional				
	Rutlege	45	Depressions on marine terraces	2, 3
	Plummer	40	Depressions on marine terraces	2, 3
	Bibb	15	Flood plains on marine terraces	2
13—Dorovan-Pamlico complex, depressional				
	Dorovan	50	Depressions on marine terraces	1, 3
	Pamlico	45	Depressions on marine terraces	1, 3
	Lynn haven	5	Flats on marine terraces	2
30—Ellore, Bibb, and Meggett soils, 0 to 3 percent slopes, frequently flooded				
	Ellore	35	Flood plains on marine terraces	2, 4
	Bibb	30	Flood plains on marine terraces	2, 4
	Meggett	25	Flood plains on marine terraces	2, 4
	Rutlege	10	Flood plains on marine terraces	2, 4
32—Plummer and Pelham soils				
	Plummer	45	Flats on marine terraces, open depressions on marine terraces	2, 3
	Pelham	40	Flats on marine terraces, open depressions on marine terraces	2, 3
	Sapelo, hydric	5	Flats on marine terraces	2
	Pottsburg, hydric	5	Flats on marine terraces	2

Hydric Soils--Liberty County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
39—Leon sand, 0 to 2 percent slopes				
	Leon, hydric	5	Flats on marine terraces	2
	Pickney	2	Flats on marine terraces	2
	Rutlege	2	Depressions on marine terraces	2, 3
44—Lynchburg loamy sand				
	Rains	10	Flood plains on marine terraces	2
45—Lynn Haven sand				
	Lynn haven	90	Flats on marine terraces	2
	Leon, hydric	5	Flats on marine terraces	2
	Pickney, frequently flooded	3	Flood plains on marine terraces	2, 3, 4
	Pamlico, frequently flooded	2	Flood plains on marine terraces	1, 3, 4
47—Torhunta-Lynn Haven-Croatan complex, frequently flooded				
	Torhunta	35	Marine terraces, flood plains	2, 4
	Lynn haven	30	Flood plains on marine terraces	2, 4
	Croatan	25	Flood plains on marine terraces	1, 3, 4
48—Meadowbrook sand				
	Meadowbrook, hydric	15	Flats on marine terraces	2
	Goldhead, depressional	8	Depressions on marine terraces	2, 3
	Pantego, depressional	2	Depressions on marine terraces	2, 3
49—Meadowbrook sand, slough				
	Meadowbrook, slough	85	Drainageways on marine terraces	2
	Rutlege	8	Depressions on marine terraces	2, 3
	Surrency, depressional	7	Depressions on marine terraces	2, 3
54—Pelham loamy sand				
	Pelham, hydric	20	Flats on marine terraces	2
55—Plummer sand, 0 to 5 percent slopes				
	Plummer, hydric	20	Flats on marine terraces	2

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
56--Pottsburg-Pottsburg, wet, sand, 0 to 2 percent slopes				
	Pottsburg, wet	25	Flatwoods, marine terraces	2
	Allanton	2	Flats on marine terraces	2, 4
57--Surrency, Pantego, and Croatan soils, depressional				
	Surrency, depressional	35	Depressions on marine terraces	2, 3
	Pantego, depressional	30	Depressions on marine terraces	2, 3
	Croatan, depressional	25	Depressions on marine terraces	1, 3
	Osier	10	Flats on marine terraces	2
58--Rutlege, Bibb, and Surrency soils, frequently flooded				
	Rutlege	35	Flood plains on marine terraces	2, 4
	Bibb	30	Flood plains on marine terraces	2, 4
	Surrency	25	Flood plains on marine terraces	2, 4
59--Hosford mucky coarse sand, 2 to 8 percent slopes				
	Hosford	80	Hillslopes on marine terraces	2
60--Sapelo sand				
	Sapelo, hydric	20	Flats on marine terraces	2
	Rutlege	5	Depressions on marine terraces	2, 3
61--Osier sand				
	Osier	80	Flats on marine terraces	2
	Hosford	10	Hillslopes on marine terraces	2
	Rutlege	10	Depressions on marine terraces	2, 3
62--Scranton loamy sand, slough				
	Scranton, slough	90	Drainageways on marine terraces	2
	Rutlege	10	Depressions on marine terraces	2, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
65—Pickney, Dorovan, and Bibb soils, frequently flooded				
	Pickney	40	Flood plains on marine terraces	2, 4
	Dorovan	25	Flood plains on marine terraces	1, 4
	Bibb	25	Flood plains on marine terraces	2, 4
66—Wahee and Ochlockonee soils, 0 to 3 percent slopes, occasionally flooded				
	Brickyard	10	Flood plains on marine terraces	2, 4
	Chowan	10	Flood plains on marine terraces	2, 4
67—Goldhead sand				
	Surrency, depressional	10	Depressions on marine terraces	2, 3
	Pantego, depressional	5	Depressions on marine terraces	2, 3
68—Goldhead-Meadowbrook complex, depressional				
	Goldhead, depressional	45	Depressions on marine terraces	2, 3
	Meadowbrook, depressional	40	Depressions on marine terraces	2, 3
	Pamlico, frequently flooded	8	Flood plains on marine terraces	1, 3, 4
	Surrency, depressional	7	Depressions on marine terraces	2, 3
73—Foxworth-Hosford-Lucy complex, 8 to 25 percent slopes				
	Hosford	25	Hillslopes on marine terraces	2
74—Garcon, Ochlockonee, and Ousley soils, occasionally flooded				
	Chowan	5	Flood plains on marine terraces	2, 4
	Brickyard	5	Flood plains on marine terraces	2, 4
81—Scranton fine sand, 0 to 2 percent slopes				
	Scranton, slough	10	Sloughs on marine terraces	2
	Rutlege	3	Flats on marine terraces	2

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
82—Brickyard and Chowan soils, frequently flooded				
	Brickyard	55	Flood plains on marine terraces	2, 4
	Chowan	35	Flood plains on marine terraces	2, 4
83—Plummer, Sapelo, and Pottsburg soils				
	Plummer	35	Flats on marine terraces	2
91—Woodington loamy sand				
	Woodington	90	Flats, marine terraces	2
92—Pamlico-Pickney complex, frequently flooded				
	Pamlico, frequently flooded	50	Flood plains on marine terraces	1, 3, 4
	Pickney, frequently flooded	35	Flood plains on marine terraces	2, 3, 4
	Dorovan	8	Flood plains on marine terraces	1, 4
	Rutlege	7	Flood plains on marine terraces	2, 4
95—Bibb, Rains, and Garcon Soils, occasionally flooded				
	Bibb	40	Flood plains on marine terraces	2
	Rains	25	Flood plains on marine terraces	2
98—Leon-Chipley complex				
	Leon, hydric	5	Knolls on marine terraces	2

Data Source Information

Soil Survey Area: Liberty County, Florida
 Survey Area Data: Version 18, Sep 26, 2014