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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Report—Hydric Soils

Hydric Soils–Jefferson County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
4—Surrency fine sand				
	Surrency	85	Depressions on marine terraces	2, 3, 4
	Pamlico	5	Flood plains on marine terraces, depressions on marine terraces	1, 3, 4
	Plummer	5	Flats on marine terraces	2
	Pelham	5	Flats on marine terraces	2
8—Chaires-Chaires, wet, fine sands, 0 to 2 percent slopes				
	Chaires, wet	30	Flats on marine terraces	2
	Tooles	2	Depressions on marine terraces	2, 3
9—Leon fine sand				
	Leon, hydric	30	Flats on marine terraces	2
	Rutlege	3	Depressions on marine terraces	2, 3
	Surrency	2	Depressions on marine terraces	2, 3, 4
10—Rains fine sandy loam				
	Rains	80	Flats on marine terraces	2
19—Bibb loamy sand, frequently flooded				
	Bibb	85	Flood plains on marine terraces	2
	Plummer	5	Flats on marine terraces	2
20—Albany sand				
	Plummer	3	Flats on marine terraces	2
22—Plummer fine sand				
	Plummer, hydric	65	Flats on marine terraces	2
	Surrency	3	Depressions on marine terraces	2, 3, 4
23—Pelham fine sand				
	Pelham, hydric	35	Flats on marine terraces	2
	Plummer	5	Flats on marine terraces	2
	Surrency	3	Depressions on marine terraces	2, 3, 4
	Rains	2	Flats on marine terraces	2
26—Sapelo fine sand				
	Sapelo, hydric	40	Flats on marine terraces	2

Hydric Soils–Jefferson County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
30—Pamlico-Dorovan mucks				
	Pamlico	45	Flood plains on marine terraces, depressions on marine terraces	1, 3, 4
	Dorovan	30	Depressions on marine terraces	1, 3, 4
	Plummer	5	Flats on marine terraces	2
	Surrency	5	Depressions on marine terraces	2, 3, 4
	Plummer, flooded	5	Flood plains on marine terraces	2
	Chaires, depressional	5	Depressions on marine terraces	2, 3
35—Rutlege fine sand				
	Rutlege	85	Depressions on marine terraces	2, 3
	Plummer	5	Flats on marine terraces	2
	Surrency	5	Depressions on marine terraces	2, 3, 4
36—Lynchburg loamy fine sand				
	Rains	5	Flats on marine terraces	2
41—Byars fine sandy loam, frequently flooded				
	Byars	85	Flood plains on marine terraces	2, 4
	Pamlico	3	Flood plains on marine terraces, depressions on marine terraces	1, 3, 4
	Dorovan	3	Depressions on marine terraces	1, 3, 4
	Surrency	3	Depressions on marine terraces	2, 3, 4
	Rains	3	Flats on marine terraces	2
45—Plummer fine sand, frequently flooded				
	Plummer, frequently flooded	80	Flood plains on marine terraces	2
	Bibb	5	Flood plains on marine terraces	2
	Surrency	5	Depressions on marine terraces	2, 3, 4

Hydric Soils–Jefferson County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
47—Nutall-Tooles complex				
	Nutall	45	Flats on marine terraces	2
	Tooles, hydric	20	Flats on marine terraces	2
	Surrency	5	Depressions on marine terraces	2, 3, 4
52—Mascotte sand				
	Mascotte, hydric	30	Flats on marine terraces	2
	Pelham	3	Flats on marine terraces	2
	Plummer	3	Flats on marine terraces	2
54—Leon-Chaires fine sands				
	Chaires, hydric	15	Flats on marine terraces	2
	Leon, hydric	15	Flats on marine terraces	2
	Surrency	5	Depressions on marine terraces	2, 3, 4
	Rutlege	5	Depressions on marine terraces	2, 3
	Plummer	3	Flats on marine terraces	2
58—Chiefland-Chiefland, frequently flooded fine sands				
	Chiefland, freq flooded	25	Flood plains on marine terraces	4
	Tooles, depressional	5	Flats on marine terraces	2, 3
	Chaires, depressional	5	Flats on marine terraces, depressions on marine terraces	2, 3
	Nutall	5	Flats on marine terraces	2
	Tooles	5	Flats on marine terraces	2
61—Tooles-Tooles, depressional-Chaires, depressional, fine sands				
	Tooles, depressional	25	Flats on marine terraces	2, 3
	Chaires, depressional	25	Flats on marine terraces, depressions on marine terraces	2, 3
	Tooles, hydric	10	Flats on marine terraces	2
	Nutall	5	Flats on marine terraces	2
	Surrency	2	Depressions on marine terraces	2, 3, 4

Hydric Soils–Jefferson County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
62—Nutall-Tooles fine sands, frequently flooded				
	Nutall, frequently flooded	40	Flood plains on marine terraces	2, 4
	Tooles, frequently flooded	40	Flood plains on marine terraces	2, 4
	Chaires, depressional	5	Flats on marine terraces, depressions on marine terraces	2, 3
	Nutall	5	Flats on marine terraces	2
	Surrency	2	Depressions on marine terraces	2, 3, 4
63—Bayvi muck				
	Bayvi	100	Tidal marshes on marine terraces	2, 4

Data Source Information

Soil Survey Area: Jefferson County, Florida
Survey Area Data: Version 11, Sep 24, 2014