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–Walton County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
6—Escambia sandy loam, 2 to 5 percent slopes				
	Kinston	2	Flood plains on marine terraces	2
	Bibb	2	Flood plains on marine terraces	2
8—Dorovan-Pamlico association, frequently flooded				
	Dorovan	60	Flood plains on marine terraces	1, 3, 4
	Pamlico	20	Flood plains on marine terraces	1, 3, 4
	Bibb	6	Flood plains on marine terraces	2
	Kinston	6	Flood plains on marine terraces	2
	Leon	5	Flats on marine terraces	2, 4
	Rutlege	3	Flood plains on marine terraces	2
15—Kinston-Johnston-Bibb complex, frequently flooded				
	Kinston	30	Flood plains on marine terraces	2
	Johnston	20	Flood plains on marine terraces	2, 3, 4
	Bibb	15	Flood plains on marine terraces	2
	Dorovan	5	Flood plains on marine terraces	1, 3, 4
	Pamlico	5	Flood plains on marine terraces	1, 3, 4
	Rutlege	5	Flood plains on marine terraces	2
19—Lakeland sand, 12 to 30 percent slopes				
	Dorovan	2	Flood plains on marine terraces	1, 3, 4
	Pamlico	2	Flood plains on marine terraces	1, 3, 4
20—Leefield-Stilson loamy sands, 0 to 5 percent slopes				
	Pantego	2	Depressions on marine terraces	2, 3

Hydric Soils–Walton County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
21—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
27—Rutlege fine sand, 0 to 2 percent slopes				
	Rutlege	92	Flats, marine terraces	2
	Pickney	2	Depressions on marine terraces	2, 3
	Scranton	2	Sloughs on marine terraces	2
	Pamlico	2	Depressions on marine terraces	1, 3
39—Pantego loam, depressional				
	Pantego	75	Depressions on marine terraces	2, 3
	Pamlico	4	Flood plains on marine terraces	1, 3, 4
	Kinston	3	Flood plains on marine terraces	2
	Johnston	3	Flood plains on marine terraces	2, 3, 4
	Bibb	3	Flood plains on marine terraces	2, 4
40—Escambia sandy loam, 0 to 2 percent slopes				
	Pantego	2	Depressions on marine terraces	2, 3
41—Maurepas muck, frequently flooded				
	Maurepas	75	Flood plains on marine terraces	1, 3, 4
	Bibb	5	Flood plains on marine terraces	2, 4
	Kinston	5	Flood plains on marine terraces	2
	Pamlico	3	Flood plains on marine terraces	1, 3, 4
	Rutlege	3	Flood plains on marine terraces	2

Hydric Soils–Walton County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
43—Kinston-Bibb association, frequently flooded				
	Kinston	45	Flood plains on marine terraces	2
	Bibb	40	Flood plains on marine terraces	2
	Pantego	3	Depressions on marine terraces	2, 3
	Pamlico	3	Flood plains on marine terraces	1, 3, 4
	Johnston	3	Flood plains on marine terraces	2, 3, 4
45—Dirego muck, frequently flooded				
	Dirego	85	Tidal marshes on marine terraces	1, 4
	Maurepas	12	Flood plains on marine terraces	1, 3, 4
48—Yemassee-Garcon-Bigbee complex, occasionally flooded				
	Kinston	3	Flood plains on marine terraces	2
	Johnston	3	Flood plains on marine terraces	2, 3, 4
	Bibb	3	Flood plains on marine terraces	2, 4
	Pamlico	3	Flood plains on marine terraces	1, 3, 4
	Rutlege	2	Flood plains on marine terraces	2
	Pantego	2	Depressions on marine terraces	2, 3
50—Mandarin sand				
	Rutlege	2	Flood plains on marine terraces	2
52—Yemassee fine sandy loam, occasionally flooded				
	Kinston	3	Flood plains on marine terraces	2
	Pantego	3	Depressions on marine terraces	2, 3
54—Newhan-Corolla sands, rolling				
	Rutlege	2	Flood plains on marine terraces	2

Hydric Soils–Walton County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
58—Duckston muck, frequently flooded				
	Duckston	80	Flats on marine terraces, depressions on marine terraces, swales on marine terraces	2
	Dirego	10	Tidal marshes on marine terraces	1, 4
	Rutlege	5	Flood plains on marine terraces	2
63—Pickney sand, depressional				
	Pickney	80	Depressions on marine terraces	2, 3
	Rutlege	5	Flood plains on marine terraces	2
	Pamlico	5	Depressions on marine terraces	1, 3
64—Pamlico muck				
	Pamlico	80	Depressions on marine terraces	1, 3
	Dorovan	7	Flood plains on marine terraces	1, 3, 4
	Pickney	5	Depressions on marine terraces	2, 3
	Rutlege	5	Flood plains on marine terraces	2
65—Garcon loamy fine sand, occasionally flooded				
	Kinston	3	Flood plains on marine terraces	2
	Pantego	2	Depressions on marine terraces	2, 3
68—Florala loamy fine sand, 0 to 2 percent slopes				
	Pantego	2	Depressions on marine terraces	2, 3
69—Florala loamy fine sand, 2 to 5 percent slopes				
	Kinston	2	Flood plains on marine terraces	2
	Bibb	2	Flood plains on marine terraces	2, 4
72—Osier fine sand				
	Osier	70	Flats on marine terraces	2
	Rutlege	5	Flood plains on marine terraces	2

Hydric Soils–Walton County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
73—Albany loamy sand				
	Osier	2	Flats on marine terraces	2

Data Source Information

Soil Survey Area: Walton County, Florida
Survey Area Data: Version 13, Sep 26, 2014