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.

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Report—Hydric Soils

Hydric Soils–Baker County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
3—Pits				
	Aquults	10	Depressions	2
11—Boulogne sand				
	Kingsferry	2	Drainageways on marine terraces	2
	Allanton	2	— error in exists on —	2
	Evergreen, depressional	2	Depressions on marine terraces	2, 3
	Murville	1	Flats on marine terraces	2
16—Dasher mucky peat, depressional				
	Dasher, depressional	90	Depressions on marine terraces	1, 3
	Mascotte, hydric	10	Flats on marine terraces	2
17—Dorovan muck, frequently flooded				
	Dorovan, frequently flooded	90	Flood plains on marine terraces	1, 3, 4
	Surrency	10	Flood plains on marine terraces	2, 4
18—Surrency-Mulat complex, frequently flooded				
	Surrency	59	Flood plains on marine terraces	2, 4
	Mulat	33	Flood plains on marine terraces	2, 4
	Osier	3	Flood plains on marine terraces	2, 4
	Pamlico, loamy substratum	3	Depressions on marine terraces	1, 3, 4
20—Duplin loamy fine sand, 2 to 5 percent slopes				
	Rains	2	Flats on marine terraces	2
23—Leon sand				
	Leon, hydric	5	Flats on marine terraces	2
	Kingsferry	1	Drainageways on marine terraces	2
	Osier	1	Flood plains on marine terraces	2

Hydric Soils–Baker County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
24—Leon-Evergreen complex, depressional				
	Leon, depressional	67	Depressions on marine terraces	2, 3
	Evergreen, depressional	28	Depressions on marine terraces	2, 3
	Allanton	1	— error in exists on —	2
	Kingsferry	1	Drainageways on marine terraces	2
	Osier	1	Flood plains on marine terraces	2
26—Kingsferry and Allanton soils				
	Kingsferry	76	Drainageways on marine terraces	2
	Allanton	21	Drainageways on marine terraces	2
28—Mandarin fine sand, 0 to 2 percent slopes				
	Leon	5	Flatwoods	2
	Rutlege	1	Drainageways, depressions	2
29—Mascotte fine sand				
	Mascotte, hydric	10	Flats on marine terraces	2
	Pelham, hydric	2	Flats on marine terraces	2
	Pantego	2	Depressions on marine terraces	2, 3
	Rains	1	Flats on marine terraces	2
30—Murville fine sand				
	Murville	83	Flats on marine terraces	2
33—Olustee-Pelham complex				
	Pelham, hydric	10	Flats on marine terraces	2
	Rains	1	Flats on marine terraces	2
35—Ousley fine sand, 2 to 5 percent slopes, occasionally flooded				
	Osier	5	Flood plains on marine terraces	2
36—Pantego-Pamlico, loamy substratum, complex, depressional				
	Pantego	60	Depressions on marine terraces	2, 3
	Pamlico, loamy substratum	30	Depressions on marine terraces	1, 3
	Rains	2	Flats on marine terraces	2

Hydric Soils–Baker County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
37—Pelham fine sand				
	Pelham, hydric	10	Flats on marine terraces	2
	Mulat	2	Flood plains on marine terraces	2, 4
	Surrency	1	Flood plains on marine terraces	2, 4
39—Plummer fine sand				
	Plummer, hydric	10	Flats on marine terraces	2
	Mulat	2	Flood plains on marine terraces	2, 4
	Osier	1	Flood plains on marine terraces	2
	Surrency	1	Flood plains on marine terraces	2, 4
	Pantego	1	Depressions on marine terraces	2, 3
40—Pamlico muck, loamy substratum, depressional				
	Pamlico, loamy substratum	90	Depressions on marine terraces	1, 3
	Pantego	4	Depressions on marine terraces	2, 3
	Pelham, hydric	3	Flats on marine terraces	2
42—Pottsburg sand, high				
	Allanton	3	— error in exists on —	2
	Leon, depressional	3	Depressions on marine terraces	2, 3
43—Pottsburg sand				
	Allanton	2	— error in exists on —	2
	Kingsferry	2	Drainageways on marine terraces	2
	Evergreen, depressional	2	Depressions on marine terraces	2, 3
	Osier	1	Flood plains on marine terraces	2
	Leon, depressional	1	Depressions on marine terraces	2, 3

Hydric Soils–Baker County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
44—Rains loamy fine sand				
	Rains	95	Flats on marine terraces	2
	Mulat	1	Flood plains on marine terraces	2, 4
	Surrency	1	Flood plains on marine terraces	2, 4
	Pantego	1	Depressions on marine terraces	2, 3
46—Osier fine sand, frequently flooded				
	Osier	90	Flood plains on marine terraces	2
47—Sapelo fine sand				
	Sapelo, hydric	10	Flats on marine terraces	2
	Pantego	1	Depressions on marine terraces	2, 3
51—Leon fine sand, occasionally flooded				
	Osier	10	Flood plains on marine terraces	2
52—Mascotte-Pamlico, loamy substratum, complex, depressional				
	Mascotte	50	Depressions on marine terraces	2, 3
	Pamlico, loamy substratum	40	Depressions on marine terraces	1, 3
	Pelham, hydric	5	Flats on marine terraces	2
53—Mascotte fine sand, low				
	Mascotte, hydric	85	Flats on marine terraces	2
	Pantego	2	Depressions on marine terraces	2, 3
	Pelham, hydric	2	Flats on marine terraces	2

Data Source Information

Soil Survey Area: Baker County, Florida
Survey Area Data: Version 12, Sep 18, 2014