

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--Franklin County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
3--Beaches				
	Duckston	3	Swales on marine terraces, flats on marine terraces, depressions on marine terraces	2
4--Dirego and Bayvi soils, tidal				
	Dirego	50	Tidal marshes on marine terraces	1, 4
	Bayvi	40	Tidal marshes on marine terraces	2, 4
	Maurepas	10	Tidal marshes on marine terraces	1, 4
5--Aquents, nearly level				
	Aquents	50	Tidal marshes on marine terraces	2
7--Bohicket and Tisonia soils, tidal				
	Bohicket	45	Tidal marshes on marine terraces	2, 4
	Tisonia	40	Tidal marshes on marine terraces	1, 4
	Dirego	5	Tidal marshes on marine terraces	1, 4
	Maurepas	5	Tidal marshes on marine terraces	1, 4
	Chowan	3	Flood plains on marine terraces	2, 4
	Brickyard	2	Flood plains on marine terraces	2, 4
9--Chaires sand				
	Chaires, hydric	15	Drainageways on marine terraces, flats on marine terraces	2
	Meadowbrook	3	Sloughs on marine terraces	2
	Scranton	3	Sloughs on marine terraces	2
	Rutlege	2	Depressions on marine terraces	2, 3
10--Corolla sand, 0 to 5 percent slopes				
	Duckston	2	Swales on marine terraces, flats on marine terraces, depressions on marine terraces	2

Hydric Soils--Franklin County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
11—Dorovan-Pamlico complex, depressional				
	Dorovan, depressional	55	Depressions on marine terraces	1, 3
	Pamlico, depressional	30	Depressions on marine terraces	1, 3
	Rutlege	5	Depressions on marine terraces	2, 3
	Pickney	5	Depressions on marine terraces	2, 3
	Scranton	3	Sloughs on marine terraces	2
	Lynn haven	2	Flats on marine terraces	2
12—Lynchburg loamy fine sand				
	Pelham	5	Flats on marine terraces	2
14—Harbeson mucky loamy sand, depressional				
	Harbeson, depressional	88	Depressions on marine terraces	2, 3
	Pickney	3	Depressions on marine terraces	2, 3
	Pamlico	3	Depressions on marine terraces	1, 3
	Bonsai	2	Flood plains on marine terraces	2, 4
	Rutlege	2	Depressions on marine terraces	2, 3
15—Ortega fine sand, 0 to 5 percent slopes				
	Lynn haven, depressional	3	Depressions on marine terraces	2, 3
16—Bonsai mucky fine sand, frequently flooded				
	Bonsai	89	Flood plains on marine terraces	2, 4
	Harbeson	11	Depressions on marine terraces	2, 3
20—Lynn Haven sand				
	Lynn haven, hydric	59	Flats on marine terraces	2
	Rutlege	5	Flats on marine terraces	2
21—Leefield sand, 0 to 2 percent slopes				
	Alapaha	5	Depressions on marine terraces, drainageways on marine terraces, flats on marine terraces	2

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
22—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
23—Maurepas muck, frequently flooded				
	Maurepas	90	Tidal marshes on marine terraces	1, 4
	Pamlico	5	Flood plains on marine terraces	1, 3, 4
	Dirego	3	Tidal marshes on marine terraces	1, 4
	Dorovan	2	Depressions on marine terraces	1, 3
25—Chowan, Brickyard, and Kenner soils, frequently flooded				
	Chowan	55	Flood plains on marine terraces	2, 4
	Brickyard	25	Flood plains on marine terraces	2, 4
	Kenner	15	Flood plains on marine terraces	1, 3, 4
	Maurepas	3	Tidal marshes on marine terraces	1, 4
	Meggett	2	Flood plains on marine terraces	2, 4
26—Duckston sand, occasionally flooded				
	Duckston	89	Swales on marine terraces, flats on marine terraces, depressions on marine terraces	2
	Bayvi	3	Tidal marshes on marine terraces	2, 4
	Rutlege	3	Depressions on marine terraces	2, 3
27—Pelham fine sand				
	Pelham, hydric	35	Flats on marine terraces	2
	Surrency	3	Depressions on marine terraces	2
28—Plummer fine sand				
	Plummer, hydric	65	Flats on marine terraces	2
	Surrency	2	Depressions on marine terraces	2

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30—Rutlege loamy fine sand, depressional				
	Rutlege, depressional	89	Depressions on marine terraces	2, 3
	Pickney	5	Depressions on marine terraces	2, 3
	Scranton	3	Sloughs on marine terraces	2
	Lynn haven	3	Flats on marine terraces	2
31—Rutlege fine sand, 0 to 2 percent slopes				
	Rutlege	92	Marine terraces, flats	2
	Pickney	2	Depressions on marine terraces	2, 3
	Scranton	2	Sloughs on marine terraces	2
	Pamlico	2	Depressions on marine terraces	1, 3
32—Sapelo fine sand				
	Sapelo, hydric	10	Flats on marine terraces	2
	Plummer	5	Flats on marine terraces	2
33—Scranton fine sand, 0 to 2 percent slopes				
	Scranton, slough	10	Sloughs on marine terraces	2
	Rutlege	3	Flats on marine terraces	2
34—Surrency fine sand				
	Surrency	88	Depressions on marine terraces	2
	Rutlege	5	Flats on marine terraces	2
36—Pickney-Pamlico complex, depressional				
	Pickney, depressional	45	Depressions on marine terraces	2, 3
	Pamlico, depressional	40	Depressions on marine terraces	1, 3
	Scranton, slough	3	Sloughs on marine terraces	2
	Rutlege	3	Flats on marine terraces	2
	Maurepas	2	Tidal marshes on marine terraces	1, 4
	Dorovan	2	Depressions on marine terraces	1, 3
	Lynn haven	2	Flats on marine terraces	2

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37—Tooles-Meadowbrook complex, depressional				
	Tooles, depressional	58	Depressions on marine terraces	2, 3
	Meadowbrook, depressional	32	Depressions on marine terraces	2, 3
	Scranton, slough	10	Sloughs on marine terraces	2
38—Meadowbrook sand				
	Meadowbrook, hydric	15	Flats on marine terraces	2
39—Scranton sand, slough				
	Scranton, slough	88	Sloughs on marine terraces	2
	Rutlege	2	Depressions on marine terraces	2, 3
40—Newhan-Corolla complex, rolling				
	Duckston	5	Swales on marine terraces, depressions on marine terraces, flats on marine terraces	2
41—Pamlico-Pickney complex, frequently flooded				
	Pamlico	45	Flood plains on marine terraces	1, 3, 4
	Pickney	40	Flood plains on marine terraces	2, 3, 4
	Dorovan	5	Depressions on marine terraces	1, 3
	Rutlege	5	Depressions on marine terraces	2, 3
	Harbeson	3	Depressions on marine terraces	2, 3
	Maurepas	2	Tidal marshes on marine terraces	1, 4
42—Meadowbrook, Meggett, and Tooles soils, frequently flooded				
	Meadowbrook	35	Flood plains on marine terraces	2, 4
	Meggett	30	Flood plains on marine terraces	2, 4
	Tooles	22	Flood plains on marine terraces	2, 4
	Harbeson	13	Depressions on marine terraces	2, 3

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43—Meadowbrook sand, slough				
	Meadowbrook, slough	88	Drainageways on marine terraces	2
	Harbeson	4	Depressions on marine terraces	2, 3
	Rutlege	4	Depressions on marine terraces	2, 3
	Scranton	4	Sloughs on marine terraces	2
44—Tooles sand				
	Tooles, hydric	20	Flats on marine terraces	2
	Meadowbrook	5	Flats on marine terraces	2
45—Wehadkee-Meggett complex, frequently flooded				
	Wehadkee	42	Flood plains on marine terraces	2, 4
	Meggett	40	Flood plains on marine terraces	2, 4
	Brickyard	8	Flood plains on marine terraces	2, 4
	Chowan	5	Flood plains on marine terraces	2, 4
	Kenner	5	Flood plains on marine terraces	1, 3, 4
46—Duckston-Rutlege-Corolla complex				
	Duckston	50	Swales on marine terraces, flats on marine terraces, depressions on marine terraces	2
	Rutlege	25	Depressions on marine terraces	2, 3
47—Duckston-Bohicket-Corolla complex				
	Duckston	50	Swales on marine terraces, flats on marine terraces, depressions on marine terraces	2
	Bohicket	25	Tidal marshes on marine terraces	2
	Rutlege	5	Depressions on marine terraces	2, 3
	Duckston, depressional	5	Swales on marine terraces, flats on marine terraces, depressions on marine terraces	2, 3

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48—Udorthents, nearly level				
	Bohicket	5	Tidal marshes on marine terraces	2
	Dirego	5	Tidal marshes on marine terraces	1, 4
	Bayvi	5	Tidal marshes on marine terraces	2, 4
	Tisonia	5	Tidal marshes on marine terraces	1, 4

Data Source Information

Soil Survey Area: Franklin County, Florida
 Survey Area Data: Version 10, Sep 26, 2014