

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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- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.
- Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.
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Report—Hydric Soils

Hydric Soils--Lafayette County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
6—Mouzon-Rawhide, depressional complex				
	Mouzon	65	Flats on marine terraces	2
	Rawhide, depressional	25	Depressions on marine terraces	2, 3
7—Chaires-Chaires, depressional complex				
	Chaires, depressional	30	Depressions on marine terraces, flats on marine terraces	2, 3
	Mouzon	3	Flats on marine terraces	2
9—Sapelo-Chaires, depressional complex				
	Chaires, depressional	25	Flats on marine terraces, depressions on marine terraces	2, 3
10—Pamlico and Dorovan soils, frequently flooded				
	Pamlico, frequently flooded	55	Flood plains on marine terraces	1, 3, 4
	Dorovan, frequently flooded	43	Flood plains on marine terraces	1, 3, 4
	Lynn haven	1	Depressions on marine terraces	2, 3
	Surrency, depressional	1	Depressions on marine terraces	2, 3
11—Pamlico and Dorovan soils, depressional				
	Pamlico, depressional	55	Depressions on marine terraces	1, 3
	Dorovan, depressional	43	Depressions on marine terraces	1, 3
	Lynn haven	1	Depressions on marine terraces	2, 3
	Surrency, depressional	1	Depressions on marine terraces	2, 3
13—Meadowbrook-Chaires complex				
	Meadowbrook	65	Flats on marine terraces	2
	Mouzon	5	Flats on marine terraces	2
14—Leon fine sand, 0 to 2 percent slopes				
	Lynn haven	5	Depressions on marine terraces	2
	Sapelo, hydric	5	Flats on marine terraces	2

Hydric Soils--Lafayette County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
15—Wesconnett and Lynn Haven soils, depressional				
	Wesconnett	55	Depressions on marine terraces	2, 3
	Lynn haven	43	Depressions on marine terraces	2, 3
	Pamlico, depressional	1	Depressions on marine terraces	1, 3
	Dorovan, depressional	1	Depressions on marine terraces	1, 3
16—Tooles fine sand				
	Clara	5	Flats on marine terraces	2
18—Surrency, Plummer, and Clara soils, depressional				
	Surrency, depressional	34	Depressions on marine terraces	2, 3
	Clara, depressional	24	Depressions on marine terraces	2, 3
	Plummer, depressional	23	Depressions on marine terraces	2, 3
	Dorovan, depressional	10	Depressions on marine terraces	1, 3
	Pamlico, depressional	9	Depressions on marine terraces	1, 3
20—Plummer fine sand				
	Surrency, depressional	5	Depressions on marine terraces	2, 3
24—Rawhide and Harbeson soils, depressional				
	Rawhide, depressional	55	Depressions on marine terraces	2, 3
	Harbeson	43	Depressions on marine terraces	2, 3
	Dorovan, depressional	1	Depressions on marine terraces	1, 3
	Pamlico, depressional	1	Depressions on marine terraces	1, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
28—Clara and Meadowbrook soils, frequently flooded				
	Clara, frequently flooded	65	Flood plains on marine terraces	2
	Meadowbrook, frequently flooded	25	Flood plains on marine terraces	2, 3, 4
	Pamlico, frequently flooded	5	Flood plains on marine terraces	1, 3, 4
	Dorovan, frequently flooded	5	Flood plains on marine terraces	1, 3, 4
29—Fluvaquents, frequently flooded				
	Fluvaquents	90	Flood plains on marine terraces	2, 4
	Pamlico, frequently flooded	5	Flood plains on marine terraces	1, 3, 4
	Dorovan, frequently flooded	5	Flood plains on marine terraces	1, 3, 4
31—Chaires, low-Meadowbrook complex				
	Chaires, low	55	Flats on marine terraces	2
	Meadowbrook	35	Flats on marine terraces	2
	Mouzon	3	Flats on marine terraces	2
32—Chaires and Meadowbrook soils, depressional				
	Chaires, depressional	65	Flats on marine terraces, depressions on marine terraces	2, 3
	Meadowbrook, depressional	30	Depressions on marine terraces	2, 3
	Clara, depressional	2	Depressions on marine terraces	2, 3
	Harbeson	2	Depressions on marine terraces	2, 3
	Rawhide, depressional	1	Depressions on marine terraces	2, 3
33—Tooles-Meadowbrook, limestone substratum-Rawhide complex, frequently flooded				
	Tooles	61	Flats on flood plains on marine terraces	2, 4
	Meadowbrook, limestone substratum	21	Flats on flood plains on marine terraces	2, 4
	Rawhide	13	Depressions on flood plains on marine terraces	2, 3, 4
	Mouzon	2	Flats on marine terraces	2

Hydric Soils--Lafayette County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
34—Ortega fine sand, 0 to 5 percent slopes				
	Lynn haven, depressional	3	Depressions on marine terraces	2, 3
37—Pantego and Surrency soils, depressional				
	Pantego, depressional	60	Depressions on marine terraces	2, 3
	Surrency, depressional	35	Depressions on marine terraces	2, 3
	Harbeson	3	Depressions on marine terraces	2, 3
	Rawhide, depressional	2	Depressions on marine terraces	2, 3
38—Pantego and Surrency soils, frequently flooded				
	Pantego, frequently flooded	55	Flood plains on marine terraces	2, 4
	Surrency, frequently flooded	40	Flood plains on marine terraces	2, 4
	Harbeson	3	Depressions on marine terraces	2, 3
	Rawhide	2	Depressions on flood plains on marine terraces	2, 3, 4
41—Meadowbrook and Harbeson soils, depressional				
	Meadowbrook	65	Depressions on marine terraces	2, 3
	Harbeson	25	Depressions on marine terraces	2, 3
	Dorovan, depressional	5	Depressions on marine terraces	1, 3
	Pamlico, depressional	5	Depressions on marine terraces	1, 3
42—Sapelo, low-Clara-Surrency, depressional complex				
	Sapelo, low	45	Flats on marine terraces	2
	Clara	25	Flats on marine terraces	2
	Surrency	15	Depressions on marine terraces	2, 3
	Pamlico, depressional	5	Depressions on marine terraces	1, 3
43—Garcon-Albany-Meadowbrook complex, 0 to 5 percent slopes, occasionally flooded				
	Meadowbrook, occasionally flooded	15	Depressions on marine terraces	2, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
44—Albany-Ousley-Meadowbrook complex, 0 to 5 percent slopes, occasionally flooded				
	Meadowbrook, occasionally flooded	15	Depressions on flood plains on marine terraces	2, 3
45—Wekiva-Rawhide-Tooles complex, occasionally flooded				
	Wekiva	55	Flats on marine terraces	2
	Rawhide, occasionally flooded	20	Depressions on marine terraces	2, 3
	Tooles	10	Flats on marine terraces	2
	Surrency, frequently flooded	5	Flood plains on marine terraces	2, 4
46—Tooles-Rawhide complex, frequently flooded				
	Tooles, frequently flooded	55	Flood plains on marine terraces	2, 4
	Rawhide, frequently flooded	35	Flood plains on marine terraces	2, 3, 4
	Surrency, frequently flooded	3	Flood plains on marine terraces	2, 4

Data Source Information

Soil Survey Area: Lafayette County, Florida
 Survey Area Data: Version 9, Sep 24, 2014