

## 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:

- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
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- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

## Report—Hydric Soils

Hydric Soils--Dixie County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
6—Albany-Ridgewood complex				
	Clara, depressional	3	Depressions on marine terraces	2, 3
	Meadowbrook, depressional	3	Depressions on marine terraces	2, 3
	Oldtown, depressional	2	Depressions on marine terraces	2, 3
7—Garcon-Ousley-Albany complex, occasionally flooded				
	Ellore	10	Flood plains on marine terraces	2, 4
10—Osier-Ellore complex, frequently flooded				
	Osier	50	Flats on flood plains on marine terraces	2, 4
	Ellore	37	Flats on flood plains on marine terraces	2, 4
11—Clara and Meadowbrook soils, frequently flooded				
	Clara, frequently flooded	50	Flats on flood plains on marine terraces	2
	Meadowbrook, frequently flooded	40	Flats on flood plains on marine terraces	2, 4
	Clara, depressional	5	— error in exists on —	2, 3
	Osier	5	Flats on flood plains on marine terraces	2, 4
12—Clara, Oldtown, and Meadowbrook soils, depressional				
	Clara, depressional	40	Depressions on marine terraces	2, 3
	Oldtown, depressional	30	Depressions on marine terraces	2, 3
	Meadowbrook, depressional	20	Depressions on marine terraces	2, 3
	Bodiford	4	Depressions on marine terraces	2, 3
	Wekiva	3	Flats on marine terraces	2
14—Rawhide mucky loamy fine sand, depressional				
	Rawhide	80	Depressions on marine terraces	2, 3
	Bodiford	4	Depressions on marine terraces	2, 3

Hydric Soils--Dixie County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
15—Leon mucky fine sand, frequently flooded				
	Leon	85	Flats on flood plains on marine terraces	2, 4
	Bodiford	5	Depressions on flood plains on marine terraces	2, 3, 4
	Yellowjacket, frequently flooded	5	Flats on flood plains on marine terraces	1, 4
	Oldtown, frequently flooded	5	Depressions on flood plains on marine terraces	2, 3, 4
17—Leon-Leon, depressional complex				
	Leon, depressional	40	Depressions on marine terraces	2, 3
	Chaires, depressional	4	Depressions on marine terraces, flats on marine terraces	2, 3
18—Chaires-Chaires, depressional complex				
	Chaires, depressional	40	Depressions on marine terraces, flats on marine terraces	2, 3
	Meadowbrook, depressional	3	Depressions on marine terraces	2, 3
19—Wekiva-Shired-Tooles complex, occasionally flooded				
	Wekiva	39	Flats on flood plains on marine terraces	2
	Shired	31	Depressions on flood plains on marine terraces	2, 3
	Tooles	24	Flats on flood plains on marine terraces	2
	Chaires, occasionally flooded	3	Depressions on flood plains on marine terraces	2, 3
	Leon, frequently flooded	3	Flats on flood plains on marine terraces	2, 4
20—Chaires, limestone substratum-Leon complex				
	Chaires, depressional	4	Depressions on marine terraces, flats on marine terraces	2, 3
	Leon, depressional	3	Depressions on marine terraces	2, 3
	Meadowbrook, depressional	3	Depressions on marine terraces	2, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
21--Meadowbrook fine sand				
	Chaires, depressional	5	Depressions on marine terraces, flats on marine terraces	2, 3
	Meadowbrook, depressional	5	Depressions on marine terraces	2, 3
	Oldtown, depressional	5	Depressions on marine terraces	2, 3
	Clara, depressional	5	Depressions on marine terraces	2, 3
22--Lutterloh, limestone substratum-Moriah complex				
	Chaires, depressional	2	Depressions on marine terraces, flats on marine terraces	2, 3
	Leon, depressional	2	Depressions on marine terraces	2, 3
	Tooles, depressional	1	Depressions on marine terraces	2, 3
25--Meadowbrook-Meadowbrook, depressional complex, occasionally flooded				
	Meadowbrook, depressional	35	Depressions on flood plains on marine terraces	2, 3
	Tooles	4	Flats on flood plains on marine terraces	2
	Chaires, occasionally flooded	4	Depressions on flood plains on marine terraces	2, 3
	Oldtown, frequently flooded	4	Depressions on flood plains on marine terraces	2, 3, 4
	Clara, depressional	4	Depressions on flood plains on marine terraces	2, 3
27--Steinhatchee-Tennille complex				
	Tennille	32	Flats on marine terraces	2
29--Tooles fine sand, depressional				
	Tooles, depressional	80	Depressions on marine terraces	2, 3
	Clara, depressional	5	Depressions on marine terraces	2, 3
30--Yellowjacket muck, depressional				
	Yellowjacket, depressional	80	Depressions on marine terraces	1, 3
	Maurepas	10	Depressions on marine terraces	1, 3
	Tooles, depressional	10	Depressions on marine terraces	2, 3

Hydric Soils--Dixie County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
31—Clara sand, occasionally ponded				
	Clara	81	Depressions on marine terraces	2
	Chaires, depressional	4	Depressions on marine terraces, flats on marine terraces	2, 3
	Meadowbrook, depressional	4	Depressions on marine terraces	2, 3
32—Bayvi muck, 0 to 1 percent slopes, frequently flooded				
	Bayvi	86	Tidal marshes	2
	Leon, tidal	4	Flats on flood plains on marine terraces	2
	Bayvi, very deep	4	Tidal marshes on marine terraces	2
	Lynn haven, tidal	3	Tidal marshes on marine terraces	2
	Nutall, tidal	3	Tidal marshes on marine terraces	2
38—Quartzipsamments, 0 to 5 percent slopes				
	Meadowbrook, depressional	5	Depressions on marine terraces	2, 3
41—Mandarin-Lutterloh, limestone substratum complex				
	Meadowbrook, depressional	10	Depressions on marine terraces	2, 3
	Clara, depressional	10	Depressions on marine terraces	2, 3
42—Tooles-Wekiva complex				
	Wekiva	30	Flats on marine terraces	2
44—Bodiford and Meadowbrook, limestone substratum, soils, frequently flooded				
	Bodiford	50	Depressions on flood plains on marine terraces	2, 3, 4
	Meadowbrook, limestone substratum	40	Flats on flood plains on marine terraces	2, 4
	Tooles	5	Flats on flood plains on marine terraces	2, 4
	Leon, frequently flooded	5	Flats on flood plains on marine terraces	2, 4

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
47—Lutterloh, limestone substratum-Moriah-Matmon complex, occasionally flooded				
	Meadowbrook, occasionally flooded	3	Depressions on flood plains on marine terraces	2, 3
48—Psammaquents-Rock outcrop complex, frequently flooded				
	Psammaquents	68	Tidal marshes on marine terraces	2
	Bayvi	1	Tidal marshes on marine terraces	2
	Chaires, limestone substratum	1	Tidal marshes on marine terraces	2
49—Chaires, limestone substratum-Meadowbrook complex				
	Meadowbrook	25	Flats on marine terraces	2
	Clara, depressional	3	Depressions on marine terraces	2, 3
	Chaires, depressional	3	Depressions on marine terraces, flats on marine terraces	2, 3
	Leon, depressional	3	Depressions on marine terraces	2, 3
	Lynn haven	2	Depressions on marine terraces	2, 3
	Meadowbrook, depressional	2	Depressions on marine terraces	2, 3
	Tooles, depressional	2	Depressions on marine terraces	2, 3
50—Wulfert muck, frequently flooded				
	Wulfert	81	Tidal marshes on marine terraces	1
	Bayvi	5	Tidal marshes on marine terraces	2
	Leon, tidal	5	Flats on flood plains on marine terraces	2
	Lynn haven, tidal	5	Tidal marshes on marine terraces	2
	Nutall, tidal	4	Tidal marshes on marine terraces	2

Hydric Soils--Dixie County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
51—Yellowjacket and Maurepas soils, frequently flooded				
	Yellowjacket	45	Flats on flood plains on marine terraces	1, 4
	Maurepas	45	Depressions on flood plains on marine terraces	1, 3, 4
	Clara, frequently flooded	10	Flood plains on marine terraces	2
52—St. Augustine sand, organic substratum, rarely flooded				
	Wulfert	2	Tidal marshes on marine terraces	1
	Bayvi	2	Depressions on marine terraces	2
	Lynn haven	2	Depressions on marine terraces	2, 3
54—Ridgewood fine sand				
	Lynn haven	3	Flats on marine terraces	2
55—Tooles-Nutall complex, frequently flooded				
	Tooles	60	Flats on flood plains on marine terraces	2, 4
	Nutall	30	Flats on flood plains on marine terraces	2, 4
	Tennille	5	Flats on flood plains on marine terraces	2, 4
	Meadowbrook	5	Flats on flood plains on marine terraces	2, 4
56—Ortega sand				
	Lynn haven	6	Depressions on marine terraces	2, 3
57—Clara-Oldtown complex, frequently flooded				
	Clara, frequently flooded	50	Flats on flood plains on marine terraces	2
	Oldtown, frequently flooded	40	Depressions on flood plains on marine terraces	2, 3, 4
	Ellore	4	Flats on flood plains on marine terraces	2, 4
	Meadowbrook, frequently flooded	3	Flats on flood plains on marine terraces	2, 4
	Leon, frequently flooded	3	Flats on flood plains on marine terraces	2, 4

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58--Talquin-Meadowbrook complex, occasionally flooded				
	Tooles	8	Flats on flood plains on marine terraces	2, 4
	Clara, frequently flooded	8	Flats on flood plains on marine terraces	2
59--Talquin fine sand, occasionally flooded				
	Clara, frequently flooded	8	Flats on flood plains on marine terraces	2
	Tooles	8	Flats on flood plains on marine terraces	2
60--Ridgewood sand, rarely flooded				
	Lynn haven	2	Flats on marine terraces	2
61--Mandarin sand				
	Clara, depressional	3	Depressions on marine terraces	2, 3
63--Wesconnett and Lynn Haven soils, depressional				
	Wesconnett	45	Depressions on marine terraces	2, 3
	Lynn haven	45	Depressions on marine terraces	2, 3
	Chaires, depressional	3	Depressions on marine terraces, flats on marine terraces	2, 3
	Meadowbrook, depressional	2	Depressions on marine terraces	2, 3
64--Ousley-Leon-Clara complex, 0 to 3 percent slopes, occasionally flooded				
	Clara	15	Depressions on flood plains on marine terraces	2, 3

## Data Source Information

Soil Survey Area: Dixie County, Florida  
 Survey Area Data: Version 8, Sep 24, 2014