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–Citrus County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
2—Adamsville fine sand, 0 to 2 percent slopes				
	Basinger	2	Drainageways	2
5—Basinger fine sand				
	Basinger	80	Drainageways on marine terraces	2, 4
	Eaugallie, hydric	5	Flats on marine terraces	2
	Immokalee, hydric	5	Flats on marine terraces	2
	Pompano, hydric	5	— error in exists on —	2
6—Basinger fine sand, depressional, 0 to 1 percent slopes				
	Basinger, depressional	92	Depressions on marine terraces	2, 3
	Immokalee, hydric	3	Flats on marine terraces	2
	Floridana, hydric	2	Depressions on marine terraces	2, 3
7—Myakka-Myakka, wet, fine sands, 0 to 2 percent slopes				
	Myakka, wet	15	Flatwoods on marine terraces	2
	Basinger	5	Drainageways on marine terraces	2
	Placid, depressional	1	Depressions on marine terraces	2, 3
9—Pompano fine sand				
	Pompano, hydric	50	Flats, marine terraces	2
	Basinger	7	Drainageways on marine terraces	2
10—Pompano fine sand, depressional				
	Pompano	80	Depressions on marine terraces	2, 3
	Kanapaha, hydric	4	Flats, marine terraces	2
	Basinger	4	Depressions on marine terraces	2, 3
12—Immokalee fine sand				
	Immokalee, hydric	20	Flats on marine terraces	2
	Basinger	3	Drainageways on marine terraces	2

Hydric Soils–Citrus County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
13—Okeelanta muck				
	Okeelanta	75	Depressions on marine terraces	1, 3
	Pompano	5	Depressions on marine terraces	2, 3
	Lauderhill	5	Depressions on marine terraces	1, 3
	Terra ceia	5	Marshes on marine terraces	1, 3
	Basinger	5	Depressions on marine terraces	2, 3
	Eaugallie	5	Depressions on marine terraces	2, 3
20—Pits				
	Aquents	30	Depressions	3
22—Quartzipsamments, 0 to 5 percent slopes				
	Basinger	10	Drainageways on marine terraces	2
23—Weekiwachee-Durbin mucks				
	Weekiwachee	45	Tidal marshes on marine terraces	1
	Durbin	40	— error in exists on —	1
	Lauderhill	4	Depressions on marine terraces	1, 3
	Terra ceia	4	Marshes on marine terraces	1, 3
	Okeelanta	4	Depressions on marine terraces	1, 3
24—Okeelanta-Lauderhill-Terra Ceia mucks				
	Okeelanta	37	Depressions on marine terraces	1, 3
	Lauderhill	33	Depressions on marine terraces	1, 3
	Terra ceia	30	Marshes on marine terraces	1, 3
27—Pomello fine sand, 0 to 5 percent slopes				
	Basinger, hydric	2	Drainageways	2
28—Redlevel fine sand				
	Pompano, hydric	3	Flats, marine terraces	2
36—EauGallie fine sand				
	Eaugallie, hydric	20	Flats on marine terraces	2
	Basinger	5	Drainageways on marine terraces	2

Hydric Soils–Citrus County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
37—Matlacha, limestone substratum-Urban land complex				
	Basinger	4	Drainageways on marine terraces	2
	Lauderhill	3	Depressions on marine terraces	1, 3
	Okeelanta	3	Depressions on marine terraces	1, 3
	Homosassa	3	Tidal marshes on marine terraces	2
38—Rock outcrop-Homosassa-Lacoochee complex				
	Homosassa	35	Tidal marshes on marine terraces	2
	Lacoochee	15	Tidal marshes on marine terraces	2
	Weekiwachee	10	Tidal marshes on marine terraces	1
39—Hallandale-Rock outcrop complex, rarely flooded				
	Hallandale, hydric	10	Flats on marine terraces	2
	Lauderhill	4	Depressions on marine terraces	1, 3
	Basinger	4	Drainageways on marine terraces	2
40—Homosassa mucky fine sandy loam				
	Homosassa	100	Tidal marshes on marine terraces	2
46—EauGallie fine sand, depressional				
	Eaugallie	80	Depressions on marine terraces	2, 3
	Immokalee, hydric	5	Flats on marine terraces	2
	Myakka, hydric	5	Flats on marine terraces	2
	Pompano	5	Depressions on marine terraces	2, 3
	Basinger	5	Depressions on marine terraces	2, 3

Hydric Soils–Citrus County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
49—Terra Ceia-Okeelanta association, very frequently flooded				
	Terra ceia	65	Flood plains on marine terraces	1
	Okeelanta	20	Depressions on marine terraces	1
	Lauderhill	5	Depressions on marine terraces	1, 3
	Basinger	5	Depressions on marine terraces	2, 3
50—Kanapaha fine sand, 0 to 5 percent slopes				
	Kanapaha, hydric	10	Flats, marine terraces	2
	Basinger	5	Drainageways on marine terraces	2
51—Boca-Pineda, limestone substratum complex				
	Boca, hydric	10	Flats on marine terraces	2
	Pineda, hydric	10	Flats on marine terraces	2
52—Anclote fine sand, depressional				
	Anclote	55	Depressions on marine terraces	2, 3
	Anclote	30	Depressions on marine terraces	2, 3
	Pompano	5	Depressions on marine terraces	2, 3
	Myakka, hydric	5	Flats on marine terraces	2
	Basinger	5	Drainageways on marine terraces	2
53—Boca fine sand				
	Boca, hydric	20	Flats on marine terraces	2
	Basinger	5	Drainageways on marine terraces	2
	Hallandale, hydric	5	Flats on marine terraces	2
56—Lake, clayey surface, 0 to 5 percent slopes				
	Okeelanta	5	Depressions on marine terraces	1, 3
57—Ona fine sand				
	Ona, hydric	10	Flats on marine terraces	2
	Basinger	3	Drainageways on marine terraces	2

Hydric Soils–Citrus County, Florida				
Map symbol and map unit name	**Component**	**Percent of map unit**	**Landform**	**Hydric criteria**
58—Myakka, limestone substratum-EauGallie, limestone substratum complex				
	Eaugallie, hydric	15	Flats on marine terraces	2
	Basinger	3	Drainageways on marine terraces	2
	Immokalee, hydric	2	Flats on marine terraces	2
	Myakka, hydric	2	Flats on marine terraces	2
	Eaugallie, depressional	2	Depressions on marine terraces	2, 3
59—Boca fine sand, depressional				
	Boca, depressional	80	Depressions on marine terraces	2, 3
	Hallandale, hydric	10	Flats on marine terraces	2
61—Orsino fine sand, 0 to 5 percent slopes				
	Basinger	5	Drainageways on marine terraces	2
62—Malabar fine sand				
	Malabar	85	Flats on marine terraces	2
	Basinger	5	Drainageways on marine terraces	2
63—Paisley fine sand				
	Paisley, hydric	30	Flats on marine terraces	2
	Malabar	5	Flats on marine terraces	2
64—Citronelle fine sand				
	Hallandale, hydric	5	Flats on marine terraces	2

Data Source Information

Soil Survey Area: Citrus County, Florida
Survey Area Data: Version 12, Sep 24, 2014