

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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- 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--Sumter County, Florida				
Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
9—Paisley fine sand, bouldery subsurface				
	Paisley	80	Flats on marine terraces	2
	Floridana, depressional	4	Depressions on marine terraces	2, 3
15—Adamsville fine sand, bouldery subsurface				
	Pompano	4	Flats on marine terraces, drainageways on marine terraces	2
18—Okeelanta muck				
	Okeelanta	85	Depressions on marine terraces	1, 3
	Placid	4	Drainageways on marine terraces, depressions on marine terraces	2, 3
	Gator	4	Depressions on marine terraces	1, 3
	Pompano, depressional	4	Depressions on marine terraces	2, 3
	Terra ceia	3	Depressions on flood plains on marine terraces	1, 4
21—EauGallie fine sand, bouldery subsurface				
	Eaugallie, hydric	20	Flats on marine terraces	2
	Paisley	5	Flats on marine terraces	2
22—Smyrna fine sand				
	Smyrna, hydric	25	Flats on marine terraces	2
	Eaugallie, hydric	5	Flats on marine terraces	2
23—Ona fine sand				
	Ona, hydric	25	Flats on marine terraces	2
24—Basinger fine sand				
	Basinger	85	Drainageways on marine terraces	2
	Placid	4	Drainageways on marine terraces, depressions on marine terraces	2, 3
	Pompano, depressional	3	Depressions on marine terraces	2, 3
25—Kanapaha sand, bouldery subsurface				
	Kanapaha, hydric	15	Marine terraces, flats	2
	Pompano	5	Flats on marine terraces, drainageways on marine terraces	2

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
26--Wabasso fine sand, bouldery subsurface				
	Wabasso, hydric	15	Flats on marine terraces	2
	Paisley	5	Flats on marine terraces	2
28--Seffner fine sand				
	Pompano	4	Flats on marine terraces, drainageways on marine terraces	2
29--Nittaw muck, frequently flooded				
	Nittaw	80	Flood plains on marine terraces	2, 4
	Floridana	7	Flood plains on marine terraces	2, 4
	Gator	7	Flood plains on marine terraces	1, 4
	Terra ceia	6	Depressions on flood plains on marine terraces	1, 4
30--Placid fine sand, depressional				
	Placid	80	Depressions on marine terraces, drainageways on marine terraces	2, 3
	Pompano, depressional	5	Depressions on marine terraces	2, 3
	Basinger	5	Drainageways on marine terraces	2
31--Myakka sand				
	Myakka, hydric	20	Flats on marine terraces	2
	Eaugallie, hydric	4	Flats on marine terraces	2
	Basinger	4	Drainageways on marine terraces	2
32--Pompano fine sand				
	Pompano	80	Flats on marine terraces, drainageways on marine terraces	2
	Basinger	7	Drainageways on marine terraces	2
	Placid	6	Depressions on marine terraces, drainageways on marine terraces	2, 3
34--Tarrytown sandy clay loam, bouldery subsurface				
	Paisley	7	Flats on marine terraces	2

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35—Pompano fine sand, depressional				
	Pompano, depressional	85	Depressions on marine terraces	2, 3
	Placid	5	Drainageways on marine terraces, depressions on marine terraces	2, 3
	Basinger	5	Drainageways on marine terraces	2
	Floridana, depressional	5	Depressions on marine terraces	2, 3
36—Floridana mucky fine sand, depressional				
	Floridana, depressional	85	Depressions on marine terraces	2, 3
	Gator	8	Depressions on marine terraces	1, 3
	Placid	7	Depressions on marine terraces, drainageways on marine terraces	2, 3
39—Mabel fine sand, bouldery subsurface, 0 to 5 percent slopes				
	Paisley	5	Flats on marine terraces	2
41—Everglades muck, frequently flooded				
	Everglades	85	Flood plains on marine terraces, marshes on marine terraces	1, 4
	Okeelanta	5	Depressions on flood plains on marine terraces	1, 4
	Gator	5	Flood plains on marine terraces	1, 4
	Terra ceia	5	Depressions on flood plains on marine terraces	1, 4
42—Adamsville fine sand				
	Pompano	4	Flats on marine terraces, drainageways on marine terraces	2
43—Basinger fine sand, depressional				
	Basinger	80	Depressions on marine terraces	2, 3
	Placid	5	Drainageways on marine terraces, depressions on marine terraces	2, 3
	Floridana, depressional	5	Depressions on marine terraces	2, 3
	Pompano, depressional	5	Depressions on marine terraces	2, 3

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44—Oldsmar fine sand, bouldery subsurface				
	Oldsmar, hydric	15	Flats on marine terraces	2
46—Ft. Green fine sand, bouldery subsurface				
	Ft. green, hydric	15	Flats on marine terraces	2
	Paisley	5	Flats on marine terraces	2
47—Okeelanta muck, frequently flooded				
	Okeelanta	75	Depressions on flood plains on marine terraces	1, 4
	Terra ceia	15	Depressions on flood plains on marine terraces	1, 4
	Gator	10	Flood plains on marine terraces	1, 4
48—Malabar fine sand, frequently flooded				
	Malabar	80	Flood plains on marine terraces	2, 4
	Pompano	4	Drainageways on marine terraces, flats on marine terraces	2
	Eaugallie, hydric	4	Flats on marine terraces	2
49—Terra Ceia muck, frequently flooded				
	Terra ceia	85	Depressions on flood plains on marine terraces	1, 4
	Gator	8	Flood plains on marine terraces	1, 4
	Okeelanta	7	Depressions on flood plains on marine terraces	1, 4
50—Immokalee sand				
	Immokalee, hydric	15	Flats on marine terraces	2
	Basinger	4	Drainageways on marine terraces	2
51—Pits-Dumps complex				
	Aquents, hydric	5	Depressions on marine terraces	2, 3

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54--Monteocha fine sand, depressional				
	Monteocha	80	Depressions on marine terraces	2, 3
	Basinger	4	Drainageways on marine terraces	2
	Okeelanta	4	Depressions on marine terraces	1, 3
	Placid	4	Depressions on marine terraces, drainageways on marine terraces	2, 3
	Floridana, depressional	4	Depressions on marine terraces	2, 3
56--Wabasso fine sand, depressional				
	Wabasso	80	Depressions on marine terraces	2, 3
	Monteocha	5	Depressions on marine terraces	2, 3
	Paisley	5	Depressions on marine terraces	2, 3
	Gator	5	Depressions on marine terraces	1, 3
	Floridana, depressional	5	Depressions on marine terraces	2, 3
57--Gator muck, frequently flooded				
	Gator	80	Flood plains on marine terraces	1, 4
	Floridana	10	Flood plains on marine terraces	2, 4
	Terra ceia	10	Depressions on flood plains on marine terraces	1, 4
58--Paisley fine sand, depressional				
	Paisley	80	Depressions on marine terraces	2, 3
	Floridana, depressional	7	Depressions on marine terraces	2, 3
	Nittaw	6	Flood plains on marine terraces	2, 4

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60—Delray fine sand, depressional				
	Delray	80	Depressions on marine terraces	2, 3
	Pompano	5	Drainageways on marine terraces, flats on marine terraces	2
	Placid	5	Depressions on marine terraces, drainageways on marine terraces	2, 3
	Basinger	5	Depressions on marine terraces	2, 3
	Floridana, depressional	5	Depressions on marine terraces	2, 3
61—EauGallie fine sand				
	Eaugallie, hydric	15	Flats on marine terraces	2
	Oldsmar, hydric	4	Flats on marine terraces	2
63—Floridana-Basinger association, frequently flooded				
	Floridana	65	Flood plains on marine terraces	2, 4
	Basinger	20	Flood plains on marine terraces	2, 4
	Malabar	4	Flood plains on marine terraces	2, 4
	Chobee	4	Drainageways on marine terraces, flood plains on marine terraces	2, 4
	Delray	4	Depressions on marine terraces	2, 3
	Pompano	3	Flats on marine terraces, drainageways on marine terraces	2
64—Gator muck				
	Gator	85	Depressions on marine terraces	1, 3
	Terra ceia	5	Depressions on flood plains on marine terraces	1, 4
	Pompano, depressional	5	Depressions on marine terraces	2, 3
	Placid	5	Depressions on marine terraces, drainageways on marine terraces	2, 3
67—Wabasso fine sand				
	Wabasso, hydric	20	Flats on marine terraces	2
	Paisley	10	Depressions on marine terraces	2, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric criteria
68—Chobee loamy fine sand, frequently flooded				
	Chobee	80	Flood plains on marine terraces, drainageways on marine terraces	2, 4
	Gator	7	Flood plains on marine terraces	1, 4
	Floridana	7	Flood plains on marine terraces	2, 4
	Nittaw	6	Flood plains on marine terraces	2, 4

Data Source Information

Soil Survey Area: Sumter County, Florida
 Survey Area Data: Version 10, Dec 16, 2013