

Hydric Soils

Windsor County, Vermont

[This report lists only those map unit components that are rated as hydric. Dashes (---) in any column indicate that the data were not included in the database. Definitions of hydric criteria codes are included at the end of the report] Dominant components that are hydric are highlighted.

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
2A: Belgrade silt loam, 0 to 3 percent slopes	Raynham	8	Depressions, Drainageways, Lake terraces	Yes	2
2B: Belgrade silt loam, 3 to 8 percent slopes	Raynham	8	Depressions, Drainageways, Lake terraces	Yes	2
4A: Raynham silt loam, 0 to 3 percent slopes	Raynham	85	Lake terraces	Yes	2
	Enosburg	4	Lake terraces	Yes	2
	Grange	4	Lake terraces	Yes	2
	Birdsall	3	Depressions, Drainageways, Lake terraces	Yes	2, 3
8A: Agawam fine sandy loam, 0 to 3 percent slopes	Walpole	3	Depressions	Yes	2
9B: Ninigret fine sandy loam, 0 to 8 percent slopes	Walpole, frigid	5	Depressions	Yes	2
10C: Marlow fine sandy loam, 8 to 15 percent slopes	Pillsbury	2	Hills, Mountains	Yes	2
10D: Marlow fine sandy loam, 15 to 25 percent slopes	Brayton	4	Hills, Mountains	Yes	2
11C: Marlow fine sandy loam, 8 to 15 percent slopes, very stony	Pillsbury, very stony	2	Hills, Mountains	Yes	2
11D: Marlow fine sandy loam, 15 to 35 percent slopes, very stony	Pillsbury, very stony	2	Hills, Mountains	Yes	2
11E: Marlow fine sandy loam, 35 to 60 percent slopes, very stony	Pillsbury, very stony	2	Hills, Mountains	Yes	2
12C: Tunbridge-Lyman complex, 8 to 15 percent slopes, very rocky	Cabot, very rocky	5	Hills, Mountains	Yes	2

Hydric Soils

Windsor County, Vermont

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12D: Tunbridge-Lyman complex, 15 to 35 percent slopes, very rocky	Cabot, very rocky	4	Hills, Mountains	Yes	2
12E: Tunbridge-Lyman complex, 35 to 60 percent slopes, very rocky	Cabot, very rocky	1	Hills, Mountains	Yes	2
14B: Hinckley sandy loam, 0 to 8 percent slopes	Grange	2	Depressions, Drainageways, Outwash terraces	Yes	2
14D: Hinckley sandy loam, 15 to 25 percent slopes	Grange	3	Depressions, Drainageways, Outwash terraces	Yes	2
14E: Hinckley sandy loam, 25 to 50 percent slopes	Grange	2	Depressions, Drainageways, Outwash terraces	Yes	2
15D: Dummerston fine sandy loam, 15 to 25 percent slopes	Cabot	2	Depressions, Drainageways, Hills	Yes	2
16C: Dummerston fine sandy loam, 8 to 15 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills	Yes	2
16D: Dummerston fine sandy loam, 15 to 35 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills	Yes	2
16E: Dummerston fine sandy loam, 35 to 60 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills	Yes	2
17B: Peru, Skerry, and Colonel soils, 3 to 8 percent slopes	Cabot	5	Depressions, Drainageways, Hills	Yes	2
17C: Peru, Skerry, and Colonel soils, 8 to 15 percent slopes	Cabot	5	Depressions, Drainageways, Hills	Yes	2
17D: Peru, Skerry, and Colonel soils, 15 to 25 percent slopes	Cabot	5	Depressions, Drainageways, Hills	Yes	2

Hydric Soils

Windsor County, Vermont

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18B: Peru, Skerry, and Colonel soils, 3 to 8 percent slopes, very stony	Cabot	3	Depressions, Drainageways, Hills	Yes	2
18C: Peru, Skerry, and Colonel soils, 8 to 15 percent slopes, very stony	Cabot	3	Depressions, Drainageways, Hills	Yes	2
18D: Peru, Skerry, and Colonel soils, 15 to 35 percent slopes, very stony	Cabot	3	Depressions, Drainageways, Hills, Mountains	Yes	2
19B: Vershire-Dummerston complex, 3 to 8 percent slopes, rocky	Cabot	1	Depressions, Drainageways, Hills	Yes	2
19C: Vershire-Dummerston complex, 8 to 15 percent slopes, rocky	Cabot	2	Depressions, Drainageways, Hills	Yes	2
19D: Vershire-Dummerston complex, 15 to 25 percent slopes, rocky	Cabot	2	Depressions, Drainageways, Hills	Yes	2
19E: Vershire-Dummerston complex, 25 to 60 percent slopes, rocky	Cabot	2	Depressions, Drainageways, Hills	Yes	2
20C: Glover-Vershire complex, 3 to 15 percent slopes, very rocky	Cabot	1	Depressions, Drainageways, Hills	Yes	2
	Pondicherry, undrained	1	Bogs, Hills	Yes	1, 3
	Wonsqueak, undrained	1	Bogs, Hills	Yes	1, 3
20D: Glover-Vershire complex, 15 to 35 percent slopes, very rocky	Cabot	1	Depressions, Drainageways, Hills	Yes	2
	Pondicherry, undrained	1	Bogs, Hills	Yes	1, 3
	Wonsqueak, undrained	1	Bogs, Hills	Yes	1, 3
20E: Glover-Vershire complex, 35 to 60 percent slopes, very rocky	Cabot	1	Depressions, Drainageways, Hills	Yes	2

Hydric Soils

Windsor County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
21B: Shelburne fine sandy loam, 3 to 8 percent slopes	Cabot	2	Depressions, Drainageways, Hills	Yes	2
21C: Shelburne fine sandy loam, 8 to 15 percent slopes	Cabot	2	Depressions, Drainageways, Hills	Yes	2
21D: Shelburne fine sandy loam, 15 to 25 percent slopes	Cabot	2	Depressions, Drainageways, Hills	Yes	2
22B: Shelburne fine sandy loam, 3 to 8 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills	Yes	2
22C: Shelburne fine sandy loam, 8 to 15 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills	Yes	2
22D: Shelburne fine sandy loam, 15 to 35 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills	Yes	2
23: Ondawa fine sandy loam, 0 to 3 percent slopes, occasionally flooded	Rumney	3	Flood plains	Yes	2
24: Podunk fine sandy loam, 0 to 3 percent slopes, occasionally flooded	Rumney	6	Flood plains	Yes	2
	Charles	2	Flood plains	Yes	2
25B: Buckland loam, 3 to 8 percent slopes	Cabot	8	Hills	Yes	2
25C: Buckland loam, 8 to 15 percent slopes	Cabot	7	Hills	Yes	2
25D: Buckland loam, 15 to 25 percent slopes	Cabot	7	Hills	Yes	2
26B: Buckland loam, 0 to 8 percent slopes, very stony	Cabot, very stony	12	Hills	Yes	2
26C: Buckland loam, 8 to 15 percent slopes, very stony	Cabot, very stony	6	Hills	Yes	2

Hydric Soils

Windsor County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
26D: Buckland loam, 15 to 35 percent slopes, very stony	Cabot, very stony	10	Hills	Yes	2
26E: Buckland loam, 35 to 60 percent slopes, very stony	Cabot, very stony	4	Hills	Yes	2
28: Udorthents and Udipsamments	Aquents	4	Depressions	Yes	2, 3
29A: Grange very fine sandy loam, 0 to 3 percent slopes	Grange	85	Depressions, Drainageways, Outwash terraces	Yes	2
	Pondicherry, undrained	2	Bogs, Outwash terraces, Swamps	Yes	1, 3
	Raynham	2	Outwash terraces	Yes	2
	Rumney	2	Flood plains	Yes	2
	Wonsqueak, undrained	2	Bogs, Outwash terraces, Swamps	Yes	1, 3
30B: Cabot silt loam, 0 to 8 percent slopes	Cabot	83	Hills, Mountains	Yes	2
	Peacham	5	Hills, Mountains	Yes	2, 3
30C: Cabot silt loam, 8 to 15 percent slopes	Cabot	84	Hills, Mountains	Yes	2
	Peacham	4	Hills, Mountains	Yes	2, 3
31B: Cabot silt loam, 0 to 8 percent slopes, very stony	Cabot, very stony	80	Hills, Mountains	Yes	2
	Peacham, very stony	6	Hills, Mountains	Yes	2, 3
	Wonsqueak, very stony	2	Hills, Mountains	Yes	1, 3
31C: Cabot silt loam, 8 to 15 percent slopes, very stony	Cabot, very stony	85	Hills, Mountains	Yes	2
	Peacham	4	Hills, Mountains	Yes	2, 3

Hydric Soils

Windsor County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
33: Rumney fine sandy loam, 0 to 3 percent slopes, frequently flooded	Rumney	84	Flood plains	Yes	2
	Medomak	6	Flood plains	Yes	2, 3, 4
	Charles	3	Flood plains	Yes	2
36C: Teago-Pomfret complex, 8 to 15 percent slopes, rocky	Cabot	2	Depressions, Drainageways, Hills	Yes	2
36D: Teago-Pomfret complex, 15 to 25 percent slopes, rocky	Cabot	2	Depressions, Drainageways, Hills	Yes	2
36E: Teago-Pomfret complex, 25 to 50 percent slopes, rocky	Cabot	2	Depressions, Drainageways, Hills	Yes	2
39: Winooski silt loam, 0 to 3 percent slopes, occasionally flooded	Limerick	5	Depressions, Drainageways, Flood plains	Yes	2
40: Limerick silt loam, 0 to 2 percent slopes, frequently flooded	Limerick	85	Flood plains	Yes	2
	Rumney	4	Flood plains	Yes	2
	Saco	4	Depressions, Drainageways, Flood plains	Yes	2
41: Saco silt loam, 0 to 2 percent slopes, frequently flooded	Saco	85	Flood plains	Yes	2
	Limerick	3	Flood plains	Yes	2
	Pondicherry, undrained	3	Bogs, Swamps	Yes	1, 3
	Rumney	3	Flood plains	Yes	2
	Cabot	2	Rises	Yes	2
	Wonsqueak, undrained	2	Bogs, Swamps	Yes	1, 3

Hydric Soils

Windsor County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
42D: Lyman-Rock outcrop complex, 15 to 35 percent slopes	Cabot, very stony	3	Hills, Mountains	Yes	2
42F: Lyman-Rock outcrop complex, 35 to 60 percent slopes	Cabot, very stony	1	Hills, Mountains	Yes	2
43D: Hogback-Rock outcrop-Rawsonville complex, 15 to 35 percent slopes, very bouldery	Cabot	7	Depressions, Drainageways, Mountains	Yes	2
45B: Eldridge fine sandy loam, 3 to 8 percent slopes	Raynham	2	Depressions, Drainageways, Lake terraces	Yes	2
45C: Eldridge fine sandy loam, 8 to 15 percent slopes	Raynham	2	Depressions, Drainageways, Lake terraces	Yes	2
45D: Eldridge fine sandy loam, 15 to 25 percent slopes	Raynham	2	Depressions, Drainageways, Lake terraces	Yes	2
45E: Eldridge fine sandy loam, 25 to 50 percent slopes	Raynham	2	Depressions, Drainageways, Lake terraces	Yes	2
47: Pondicherry and Wonsqueak mucks, ponded	Pondicherry	43	Bogs, Swamps	Yes	1, 3
	Wonsqueak	42	Bogs, Swamps	Yes	1, 3
	Bucksport, undrained	3	Bogs, Swamps	Yes	1, 3
	Cabot	2	Bogs, Rises, Swamps	Yes	2
	Grange	2	Bogs, Rises, Swamps	Yes	2
	Peacham, undrained	2	Bogs, Swamps	Yes	2, 3
	Rumney	2	Flood plains	Yes	2
	Saco	2	Flood plains	Yes	2

Hydric Soils

Windsor County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
48: Pits, Sand, and Pits, gravel	Aquents	4	Depressions	Yes	2, 3
49B: Vershire-Buckland complex, 3 to 8 percent slopes	Cabot	2	Depressions, Drainageways, Hills	Yes	2
49C: Vershire-Buckland complex, 8 to 15 percent slopes	Cabot	2	Depressions, Drainageways, Hills	Yes	2
49D: Vershire-Buckland complex, 15 to 25 percent slopes	Cabot	2	Depressions, Drainageways, Hills	Yes	2
54B: Tunbridge-Lyman complex, 3 to 8 percent slopes, rocky	Cabot, rocky	5	Hills, Mountains	Yes	2
54C: Tunbridge-Lyman complex, 8 to 15 percent slopes, rocky	Cabot, rocky	4	Hills, Mountains	Yes	2
54D: Tunbridge-Lyman complex, 15 to 25 percent slopes, rocky	Cabot, rocky	5	Hills, Mountains	Yes	2
56: Bucksport muck, ponded	Bucksport	85	Bogs, Swamps	Yes	1, 3
	Pondicherry, undrained	5	Bogs, Swamps	Yes	1, 3
	Wonsqueak, undrained	5	Bogs, Swamps	Yes	1, 3
58C: Berkshire-Tunbridge complex, 8 to 15 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills, Mountains	Yes	2
58D: Berkshire-Tunbridge complex, 15 to 35 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills, Mountains	Yes	2
58E: Berkshire-Tunbridge complex, 35 to 50 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills, Mountains	Yes	2

Hydric Soils

Windsor County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
59C: Rawsonville-Houghtonville complex, 8 to 15 percent slopes, rocky	Cabot	4	Depressions, Drainageways, Hills, Mountains	Yes	2
59D: Rawsonville-Houghtonville complex, 15 to 35 percent slopes, rocky	Cabot	4	Depressions, Drainageways, Hills, Mountains	Yes	2
59E: Rawsonville-Houghtonville complex, 35 to 60 percent slopes, rocky	Cabot	4	Depressions, Drainageways, Hills, Mountains	Yes	2
63C: Berkshire and Monadnock fine sandy loams, 8 to 15 percent slopes, very stony	Cabot	1	Depressions, Drainageways, Hills, Mountains	Yes	2
63D: Berkshire and Monadnock fine sandy loams, 15 to 35 percent slopes, very stony	Cabot	1	Depressions, Drainageways, Hills, Mountains	Yes	2
63E: Berkshire and Monadnock fine sandy loams, 35 to 60 percent slopes, very stony	Cabot	1	Drainageways, Hills, Mountains, Seeps	Yes	2
64B: Colton fine sandy loam, 3 to 8 percent slopes	Grange	3	Depressions, Drainageways, Outwash terraces	Yes	2
64C: Colton fine sandy loam, 8 to 15 percent slopes	Grange	3	Depressions, Drainageways, Outwash terraces	Yes	2
64D: Colton fine sandy loam, 15 to 25 percent slopes	Grange	3	Depressions, Drainageways, Outwash terraces	Yes	2
64E: Colton fine sandy loam, 25 to 60 percent slopes	Grange	3	Depressions, Drainageways, Outwash terraces	Yes	2

Hydric Soils

Windsor County, Vermont

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68B: Berkshire and Monadnock fine sandy loams, 3 to 8 percent slopes	Cabot	1	Depressions, Drainageways, Hills, Mountains	Yes	2
68C: Berkshire and Monadnock fine sandy loams, 8 to 15 percent slopes	Cabot	1	Depressions, Drainageways, Hills, Mountains	Yes	2
68D: Berkshire and Monadnock fine sandy loams, 15 to 25 percent slopes	Cabot	1	Depressions, Drainageways, Hills, Mountains	Yes	2
71B: Croghan and Sheepscot fine sandy loams, 0 to 8 percent slopes	Grange	3	Depressions, Drainageways, Outwash terraces	Yes	2
	Rumney	2	Flood plains	Yes	2
71C: Croghan and Sheepscot fine sandy loams, 8 to 15 percent slopes	Grange	3	Depressions, Drainageways, Outwash terraces	Yes	2
	Rumney	2	Flood plains	Yes	2
74C: Mundal fine sandy loam, 8 to 15 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
74D: Mundal fine sandy loam, 15 to 35 percent slopes, very stony	Cabot	5	Depressions, Drainageways, Hills, Mountains	Yes	2
75B: Urban land-Colton-Croghan complex, 0 to 8 percent slopes	Grange	3	Depressions, Drainageways, Outwash terraces	Yes	2
79D: Dummerston-Macomber complex, 15 to 25 percent slopes, very stony	Cabot	2	Depressions, Drainageways, Hills	Yes	2

Hydric Soils

Windsor County, Vermont

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
80C: Macomber-Taconic complex, 8 to 15 percent slopes, very rocky	Cabot	1	Depressions, Drainageways, Hills	Yes	2
80D: Macomber-Taconic complex, 15 to 25 percent slopes, very rocky	Cabot	1	Depressions, Drainageways, Hills	Yes	2
80F: Macomber-Taconic complex, 25 to 70 percent slopes, very rocky	Cabot	1	Drainageways, Hills	Yes	2
81D: Taconic-Hubbardton-Rock outcrop complex, 8 to 25 percent slopes	Cabot	2	Depressions, Drainageways, Hills	Yes	2
82: Udifluvents, cobbly, frequently flooded	Rumney	5	Depressions, Flood plains	Yes	2
85B: Fullam silt loam, 3 to 8 percent slopes	Cabot	3	Depressions, Drainageways, Hills	Yes	2
85C: Fullam silt loam, 8 to 15 percent slopes	Cabot	3	Depressions, Drainageways, Hills	Yes	2
	Rumney	1	Drainageways, Flood plains	Yes	2
85D: Fullam silt loam, 15 to 25 percent slopes	Cabot	3	Depressions, Drainageways, Hills	Yes	2
	Rumney	1	Drainageways, Flood plains	Yes	2
86C: Fullam silt loam, 8 to 15 percent slopes, very stony	Cabot	3	Depressions, Drainageways, Hills	Yes	2
	Rumney	1	Drainageways, Flood plains	Yes	2

Hydric Soils

Windsor County, Vermont

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86D:					
Fullam silt loam, 15 to 35 percent slopes, very stony	Cabot	3	Depressions, Drainageways, Hills	Yes	2
	Rumney	1	Drainageways, Flood plains	Yes	2
89C:					
Dummerston-Macomber complex, 8 to 15 percent slopes, rocky	Cabot	3	Depressions, Drainageways, Hills	Yes	2
203D:					
Peru-Colonel-Marlow association, 3 to 35 percent slopes, very stony	Cabot	3	Depressions, Drainageways, Hills, Mountains	Yes	2
403B:					
Cabot-Pondicherry-Wonsqueak association, 0 to 8 percent slopes, very stony	Cabot, very stony	55	Depressions, Drainageways	Yes	2
	Pondicherry	15	Bogs, Swamps	Yes	1, 3
	Wonsqueak	15	Bogs, Swamps	Yes	1, 3
	Bucksport, undrained	2	Bogs, Swamps	Yes	1, 3
	Grange	2	Outwash terraces	Yes	2
	Peacham, undrained	2	Depressions, Drainageways	Yes	2, 3
	Rumney	2	Flood plains	Yes	2
	415D:				
Tunbridge-Berkshire-Lyman complex, 8 to 50 percent slopes, rocky	Cabot	2	Depressions, Drainageways, Hills, Mountains	Yes	2
	Pondicherry, undrained	1	Bogs, Hills, Mountains, Swamps	Yes	1, 3
	Wonsqueak, undrained	1	Bogs, Hills, Mountains, Swamps	Yes	1, 3

Hydric Soils

Windsor County, Vermont

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425D:					
Peru-Tunbridge-Berkshire complex, 8 to 35 percent slopes, rocky	Cabot	2	Depressions, Drainageways, Hills, Mountains	Yes	2
	Pondicherry, undrained	1	Bogs, Hills, Mountains, Swamps	Yes	1, 3
	Wonsqueak, undrained	1	Bogs, Hills, Mountains, Swamps	Yes	1, 3
505D:					
Peru-Berkshire-Colton association, 3 to 35 percent slopes, very stony	Cabot	1	Depressions, Drainageways, Hills	Yes	2
	Grange	1	Depressions, Drainageways, Outwash terraces	Yes	2
705D:					
Rawsonville-Houghtonville-Mundal complex, 8 to 50 percent slopes, rocky	Cabot	7	Depressions, Drainageways, Hills, Mountains	Yes	2

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, 2003) 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 others, 2002).

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, 2B3). 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. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
 - B. are poorly drained or very poorly drained and have either:
 - 1) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
 - 2) a water table at a depth of 0.5 foot or less during the growing season if permeability is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
 - 3) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 in/hr in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for long or very long duration during the growing season.
4. Soils that are frequently flooded for long or very long duration during the growing season.

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