

# Hydric Soils

Plymouth County, Massachusetts

[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]

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1: Water	Freetown	1	Bogs, Depressions, Kettles, Marshes, Swamps	Yes	1, 3
	Swansea	1	Bogs, Depressions, Kettles, Marshes, Swamps	Yes	1, 3
5A: Saco mucky silt loam, 0 to 3 percent slopes	Saco	85	Depressions, Flood plains, Meander scars	Yes	2
	Freetown	5	Bogs, Depressions, Kettles, Marshes, Swamps	Yes	1, 3
	Limerick	4	Flood plains	Yes	2
	Swansea	4	Bogs, Depressions, Kettles, Marshes, Swamps	Yes	1, 3
	Scarboro	2	Depressions, Drainageways	Yes	2, 3
6A: Scarboro muck, coastal lowland, 0 to 3 percent slopes	Scarboro, coastal lowland	85	Depressions, Drainageways	Yes	2, 3
	Swansea	10	Swamps	Yes	1, 3
	Mashpee	5	Depressions, Drainageways, Terraces	Yes	2
7A: Rainberry coarse sand, 0 to 3 percent slopes, sanded surface	Rainberry, sanded surface	85	Depressions, Kettles	Yes	2
	Swansea, sanded surface	5	Bogs, Depressions, Kettles	Yes	1, 3
	Tihonet	3	Bogs	Yes	2
	Freetown, sanded surface	2	Bogs, Depressions, Kettles	Yes	1, 3

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8A:					
Limerick silt loam, 0 to 3 percent slopes	Limerick	90	Flood plains	Yes	2
	Saco	5	Depressions, Flood plains, Meander scars	Yes	2
	Swansea	2	Bogs, Depressions, Kettles, Marshes, Swamps	Yes	1, 3
9A:					
Birdsall silt loam, 0 to 3 percent slopes	Birdsall	90	Depressions, Drainageways, Terraces	Yes	2, 3
	Raynham	4	Depressions, Drainageways	Yes	2
	Scarboro	2	Depressions, Drainageways	Yes	2, 3
	Squamscott	2	Lake plains, Lake terraces	Yes	2
	Swansea	2	Bogs, Depressions, Kettles, Marshes, Swamps	Yes	1, 3
11A:					
Rainberry coarse sand, 0 to 3 percent slopes	Rainberry	85	Depressions, Kettles	Yes	2
	Mashpee	5	Depressions, Drainageways, Terraces	Yes	2
	Massasoit	5	Depressions, Drainageways, Terraces	Yes	2
	Swansea	3	Bogs, Depressions, Kettles, Marshes, Swamps	Yes	1, 3

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<b>23A:</b>					
Tihonet coarse sand, 0 to 3 percent slopes	Tihonet	87	Bogs	Yes	2
	Rainberry, sanded surface	4	Depressions, Kettles	Yes	2
	Freetown, sanded surface	3	Bogs, Depressions, Kettles	Yes	1, 3
	Swansea, sanded surface	3	Bogs, Depressions, Kettles	Yes	1, 3
<b>30A:</b>					
Raynham silt loam, 0 to 3 percent slopes	Raynham	85	Depressions, Drainageways	Yes	2
	Birdsall	6	Depressions, Drainageways, Terraces	Yes	2, 3
	Squamscott	2	Lake plains, Lake terraces	Yes	2
<b>37A:</b>					
Massasoit - Mashpee complex, 0 to 3 percent slopes	Massasoit	55	Depressions, Drainageways, Terraces	Yes	2
	Mashpee	35	Depressions, Drainageways, Terraces	Yes	2
	Rainberry	3	Depressions, Kettles	Yes	2
	Squamscott	2	Lake plains, Lake terraces	Yes	2
<b>47A:</b>					
Brockton sandy loam, 0 to 3 percent slopes	Brockton	85	Depressions, Drainageways	Yes	2, 3
	Norwell	5	Depressions, Drainageways	Yes	2
	Ridgebury	5	Depressions, Drainageways	Yes	2
	Whitman	5	Depressions, Drainageways	Yes	2, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
<b>48A:</b>					
Brockton sandy loam, 0 to 3 percent slopes, extremely stony	Brockton, extremely stony	80	Depressions, Drainageways	Yes	2, 3
	Mattapoisett, extremely stony	4	Depressions, Drainageways	Yes	2
	Norwell, extremely stony	4	Depressions, Drainageways	Yes	2
	Ridgebury, extremely stony	4	Depressions, Drainageways	Yes	2
	Swansea	4	Bogs, Depressions, Kettles, Marshes, Swamps	Yes	1, 3
	Whitman, extremely stony	4	Depressions, Drainageways	Yes	2, 3
<b>49A:</b>					
Norwell mucky fine sandy loam, 0 to 3 percent slopes, extremely stony	Norwell, extremely stony	80	Depressions, Drainageways	Yes	2
	Brockton, extremely stony	5	Depressions, Drainageways	Yes	2, 3
	Mattapoisett, extremely stony	5	Depressions, Drainageways	Yes	2
	Ridgebury, extremely stony	5	Depressions, Drainageways	Yes	2
<b>49B:</b>					
Norwell mucky fine sandy loam, 3 to 8 percent slopes, extremely stony	Norwell, extremely stony	80	Depressions, Drainageways	Yes	2
	Brockton, extremely stony	5	Depressions, Drainageways	Yes	2, 3
	Mattapoisett, extremely stony	5	Depressions, Drainageways	Yes	2
	Ridgebury, extremely stony	5	Depressions, Drainageways	Yes	2

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
<b>51A:</b>					
Swansea muck, 0 to 1 percent slopes	Swansea	80	Swamps	Yes	1, 3
	Freetown	10	Swamps	Yes	1, 3
	Scarboro	5	Depressions, Drainageways	Yes	2, 3
	Whitman	5	Depressions, Drainageways	Yes	2, 3
<b>52A:</b>					
Freetown muck, 0 to 1 percent slopes	Freetown	85	Depressions, Depressions	Yes	1, 3
	Scarboro	5	Depressions, Drainageways	Yes	2, 3
	Swansea	5	Depressions, Depressions	Yes	1, 3
	Whitman	5	Depressions, Drainageways	Yes	2, 3
<b>53A:</b>					
Freetown muck, ponded, 0 to 1 percent slopes	Freetown, ponded	85	Depressions, Depressions	Yes	1, 3
	Scarboro	5	Depressions, Drainageways	Yes	2, 3
	Swansea, ponded	5	Depressions, Depressions	Yes	1, 3
	Whitman, ponded	5	Depressions, Ground moraines	Yes	2, 3
<b>55A:</b>					
Freetown coarse sand, 0 to 3 percent slopes, sanded surface	Freetown, sanded surface	85	Depressions	Yes	1, 4
	Swansea, sanded surface, inactive	5	Depressions	Yes	1, 3
	Rainberry, sanded surface	4	Depressions, Kettles	Yes	2, 4
	Tihonet	3	---	Yes	2, 4

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
<b>60A:</b>					
Swansea coarse sand, 0 to 2 percent slopes	Swansea, sanded surface	86	Depressions	Yes	1, 4
	Freetown, sanded surface	5	Depressions	Yes	1, 4
	Rainberry, sanded surface	3	Depressions	Yes	2, 4
	Tihonet	3	Bogs	Yes	2, 4
<b>66A:</b>					
Ipswich - Pawcatuck - Matunuck complex, 0 to 2 percent slopes, very frequently flooded	Ipswich	50	Tidal marshes	Yes	1
	Pawcatuck	25	Tidal marshes	Yes	1
	Matunuck	15	Tidal marshes	Yes	2
<b>69A:</b>					
Mattapoisett loamy sand, 0 to 3 percent slopes, extremely stony	Mattapoisett, extremely stony	85	Depressions, Drainageways	Yes	2
	Brockton, extremely stony	5	Depressions, Drainageways	Yes	2, 3
	Norwell, extremely stony	3	Depressions, Drainageways	Yes	2
<b>69B:</b>					
Mattapoisett loamy sand, 3 to 8 percent slopes, extremely stony	Mattapoisett, extremely stony	85	Depressions, Drainageways	Yes	2
	Brockton, extremely stony	5	Depressions, Drainageways	Yes	2, 3
	Norwell, extremely stony	3	Depressions, Drainageways	Yes	2
<b>70A:</b>					
Ridgebury fine sandy loam, 0 to 3 percent slopes	Ridgebury	85	Depressions	Yes	2
	Whitman	5	Depressions	Yes	2, 3
	Leicester	1	Depressions	Yes	2

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
<b>70B:</b>					
Ridgebury fine sandy loam, 3 to 8 percent slopes	Ridgebury	85	Depressions, Drainageways	Yes	2
	Whitman	6	Depressions, Drainageways	Yes	2, 3
	Norwell	2	Depressions, Drainageways	Yes	2
<b>71A:</b>					
Ridgebury fine sandy loam, 0 to 3 percent slopes, extremely stony	Ridgebury, extremely stony	85	Depressions	Yes	2
	Whitman, extremely stony	7	Depressions	Yes	2, 3
<b>71B:</b>					
Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony	Ridgebury, extremely stony	80	Depressions	Yes	2
	Whitman, extremely stony	8	Depressions	Yes	2, 3
<b>72A:</b>					
Whitman loam, 0 to 3 percent slopes	Whitman	85	Depressions, Drainageways	Yes	2, 3
	Ridgebury	10	Depressions, Drainageways	Yes	2
	Scarboro	3	Depressions, Drainageways	Yes	2, 3
	Swansea	2	Bogs, Depressions, Kettles, Marshes, Swamps	Yes	1, 3
<b>73A:</b>					
Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony	Whitman, extremely stony	81	Depressions	Yes	2, 3
	Ridgebury, extremely stony	10	Depressions	Yes	2
	Scarboro	5	Depressions	Yes	2, 3
	Swansea	3	Swamps	Yes	1, 3
<b>98A:</b>					
Winooski silt loam, 0 to 3 percent slopes	Limerick	10	Flood plains	Yes	2
	Saco	5	Depressions, Flood plains, Meander scars	Yes	2

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
200A: Squamscott fine sandy loam, 0 to 3 percent slopes	Squamscott	85	Lake plains, Lake terraces	Yes	2
	Birdsall	6	Depressions, Drainageways, Terraces	Yes	2, 3
	Raynham	4	Depressions, Drainageways	Yes	2
221A: Eldridge fine sandy loam, 0 to 3 percent slopes	Squamscott	5	Lake plains, Lake terraces	Yes	2
221B: Eldridge fine sandy loam, 3 to 8 percent slopes	Squamscott	5	Lake plains, Lake terraces	Yes	2
223A: Scio very fine sandy loam, 0 to 3 percent slopes	Raynham	4	Depressions, Drainageways	Yes	2
	Squamscott	3	Lake plains, Lake terraces	Yes	2
223B: Scio very fine sandy loam, 3 to 8 percent slopes	Raynham	4	Depressions, Drainageways	Yes	2
	Squamscott	3	Lake plains, Lake terraces	Yes	2
252A: Carver coarse sand, 0 to 3 percent slopes	Massasoit	3	Depressions, Drainageways, Terraces	Yes	2
	Mashpee	2	Depressions, Drainageways, Terraces	Yes	2
252B: Carver coarse sand, 3 to 8 percent slopes	Massasoit	3	Depressions, Drainageways, Terraces	Yes	2
	Mashpee	2	Depressions, Drainageways, Terraces	Yes	2



# Hydric Soils

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
256A: Deerfield fine sand, 0 to 3 percent slopes	Mashpee	4	Depressions, Drainageways, Terraces	Yes	2
	Massasoit	4	Depressions, Drainageways, Terraces	Yes	2
256B: Deerfield fine sand, 3 to 8 percent slopes	Mashpee	4	Depressions, Drainageways, Terraces	Yes	2
	Massasoit	4	Depressions, Drainageways, Terraces	Yes	2
259A: Carver loamy coarse sand, 0 to 3 percent slopes	Mashpee	1	Depressions, Drainageways, Terraces	Yes	2
	Massasoit	1	Depressions, Drainageways, Terraces	Yes	2
259B: Carver loamy coarse sand, 3 to 8 percent slopes	Mashpee	1	Depressions, Drainageways, Terraces	Yes	2
	Massasoit	1	Depressions, Drainageways, Terraces	Yes	2
260A: Sudbury fine sandy loam, 0 to 3 percent slopes	Scarboro	5	Depressions, Drainageways	Yes	2, 3
	Massasoit	3	Depressions, Drainageways, Terraces	Yes	2
	Mashpee	2	Depressions, Drainageways, Terraces	Yes	2

# Hydric Soils

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
260B: Sudbury fine sandy loam, 3 to 8 percent slopes	Scarboro	5	Depressions, Drainageways	Yes	2, 3
	Massasoit	3	Depressions, Drainageways, Terraces	Yes	2
	Mashpee	2	Depressions, Drainageways, Terraces	Yes	2
300B: Montauk fine sandy loam, 3 to 8 percent slopes	Ridgebury	4	Depressions	Yes	2
300C: Montauk fine sandy loam, 8 to 15 percent slopes	Ridgebury	4	Depressions	Yes	2
301B: Montauk fine sandy loam, 0 to 8 percent slopes, very stony	Ridgebury, very stony	4	Depressions	Yes	2
301C: Montauk fine sandy loam, 8 to 15 percent slopes, very stony	Ridgebury, very stony	4	Depressions	Yes	2
305B: Paxton fine sandy loam, 3 to 8 percent slopes	Ridgebury	6	Depressions	Yes	2
305C: Paxton fine sandy loam, 8 to 15 percent slopes	Ridgebury	2	Depressions	Yes	2
306B: Paxton fine sandy loam, 0 to 8 percent slopes, very stony	Ridgebury, very stony	4	Depressions	Yes	2
306C: Paxton fine sandy loam, 8 to 15 percent slopes, very stony	Ridgebury, very stony	2	Depressions	Yes	2
309B: Moshup loam, 3 to 8 percent slopes, very stony	Norwell, extremely stony	3	Depressions, Drainageways	Yes	2
309C: Moshup loam, 8 to 15 percent slopes, very stony	Norwell, extremely stony	3	Depressions, Drainageways	Yes	2

# Hydric Soils

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
310A: Woodbridge fine sandy loam, 0 to 3 percent slopes	Ridgebury	6	Depressions	Yes	2
	Whitman, extremely stony	1	Depressions	Yes	2
310B: Woodbridge fine sandy loam, 3 to 8 percent slopes	Ridgebury	8	Depressions	Yes	2
310C: Woodbridge fine sandy loam, 8 to 15 percent slopes	Ridgebury	4	Depressions	Yes	2
311A: Woodbridge fine sandy loam, 0 to 3 percent slopes, very stony	Ridgebury, very stony	5	Depressions	Yes	2
311B: Woodbridge fine sandy loam, 3 to 8 percent slopes, very stony	Ridgebury, very stony	8	Depressions	Yes	2
311C: Woodbridge fine sandy loam, 8 to 15 percent slopes, very stony	Ridgebury, very stony	4	Depressions	Yes	2
	Whitman, very stony	1	Depressions	Yes	2
315A: Scituate gravelly sandy loam, 0 to 3 percent slopes	Norwell	5	Depressions, Drainageways	Yes	2
315B: Scituate gravelly sandy loam, 3 to 8 percent slopes	Norwell	5	Depressions, Drainageways	Yes	2
315C: Scituate gravelly sandy loam, 8 to 15 percent slopes	Norwell	3	Depressions, Drainageways	Yes	2
316A: Scituate gravelly sandy loam, 0 to 3 percent slopes, very stony	Norwell, extremely stony	5	Depressions, Drainageways	Yes	2
316B: Scituate gravelly sandy loam, 3 to 8 percent slopes, very stony	Norwell, extremely stony	5	Depressions, Drainageways	Yes	2
316C: Scituate gravelly sandy loam, 8 to 15 percent slopes, very stony	Norwell, extremely stony	3	Depressions, Drainageways	Yes	2

# Hydric Soils

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
320A: Birchwood sand, 0 to 3 percent slopes	Mattapoisett	6	Depressions, Drainageways	Yes	2
320B: Birchwood sand, 3 to 8 percent slopes	Mattapoisett	6	Depressions, Drainageways	Yes	2
320C: Birchwood sand, 8 to 15 percent slopes	Mattapoisett	2	Depressions, Drainageways	Yes	2
321A: Birchwood sand, 0 to 3 percent slopes, very stony	Mattapoisett, extremely stony	6	Depressions, Drainageways	Yes	2
321B: Birchwood sand, 3 to 8 percent slopes, very stony	Mattapoisett, extremely stony	6	Depressions, Drainageways	Yes	2
321C: Birchwood sand, 8 to 15 percent slopes, very stony	Mattapoisett, extremely stony	2	Depressions, Drainageways	Yes	2
322A: Poquonock sand, 0 to 3 percent slopes	Mattapoisett	5	Depressions, Drainageways	Yes	2
322B: Poquonock sand, 3 to 8 percent slopes	Mattapoisett	5	Depressions, Drainageways	Yes	2
323B: Poquonock sand, 3 to 8 percent slopes, very stony	Mattapoisett, extremely stony	7	Depressions, Drainageways	Yes	2
345A: Pittstown loam, 0 to 3 percent slopes	Ridgebury	3	Depressions, Drainageways	Yes	2
345B: Pittstown loam, 3 to 8 percent slopes	Ridgebury	5	Depressions, Drainageways	Yes	2
346A: Pittstown loam, 0 to 3 percent slopes, very stony	Ridgebury, extremely stony	5	Depressions, Drainageways	Yes	2

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
346B: Pittstown loam, 3 to 8 percent slopes, very stony	Ridgebury, extremely stony	5	Depressions, Drainageways	Yes	2
420B: Canton fine sandy loam, 3 to 8 percent slopes	Swansea	1	Depressions	Yes	1, 3
421B: Canton fine sandy loam, 0 to 8 percent slopes, very stony	Swansea	2	Depressions	Yes	1, 3
421C: Canton fine sandy loam, 8 to 15 percent slopes, very stony	Swansea	1	Depressions	Yes	1, 3
426A: Newfields fine sandy loam, 0 to 3 percent slopes	Norwell	7	Depressions, Drainageways	Yes	2
426B: Newfields fine sandy loam, 3 to 8 percent slopes	Norwell	7	Depressions, Drainageways	Yes	2
427A: Newfields fine sandy loam, 0 to 3 percent slopes, extremely stony	Norwell, extremely stony	7	Depressions, Drainageways	Yes	2
427B: Newfields fine sandy loam, 3 to 8 percent slopes, extremely stony	Norwell, extremely stony	7	Depressions, Drainageways	Yes	2
612B: Hooksan fine sand, 3 to 8 percent slopes	Ipswich	5	Salt marshes, Tidal marshes	Yes	1, 3
612C: Hooksan fine sand, 8 to 15 percent slopes	Ipswich	5	Salt marshes, Tidal marshes	Yes	1, 3
612E: Hooksan fine sand, 15 to 35 percent slopes	Ipswich	5	Salt marshes, Tidal marshes	Yes	1, 3
613C: Dune land - Hooksan complex, 8 to 15 percent slopes	Ipswich	2	Salt marshes, Tidal marshes	Yes	1, 3
614A: Oxyaquic Udipsamments, 0 to 3 percent slopes	Ipswich	2	Salt marshes, Tidal marshes	Yes	1, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
619A: Deerfield - Urban land complex, 0 to 3 percent slopes	Massasoit	3	Depressions, Drainageways, Terraces	Yes	2
	Mashpee	2	Depressions, Drainageways, Terraces	Yes	2
622C: Urban land-Paxton complex, 8 to 15 percent slopes	Ridgebury	5	Depressions	Yes	2
657A: Aquepts, 0 to 3 percent slopes	Aquepts	80	---	Yes	2
658A: Endoaquents, 0 to 3 percent slopes, sanded surface	Endoaquents, sanded surface	80	Bogs	Yes	2
	Swansea, sanded surface	7	Bogs, Depressions, Kettles	Yes	1, 3
	Freetown, sanded surface	4	Bogs, Depressions, Kettles	Yes	1, 3
	Tihonet	4	Bogs	Yes	2
665B: Udipsamments, 0 to 8 percent slopes	Tihonet	5	Bogs	Yes	2
666A: Ipswich-Pawcatuck-Matunuck complex, 0 to 1 percent slopes,	Ipswich, freshened	45	Salt marshes, Tidal marshes	Yes	1, 3
	Pawcatuck, freshened	25	Salt marshes, Tidal marshes	Yes	1, 3
	Matunuck, freshened	20	Salt marshes, Tidal marshes	Yes	2, 3
700A: Udipsamments, wet substratum, 0 to 3 percent slopes	Tihonet	10	Bogs	Yes	2

# Hydric Soils

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
701A: Rainberry coarse sand, 0 to 3 percent slope, sanded surface, inactive	Rainberry, sanded surface, inactive	85	Depressions, Kettles	Yes	2
	Swansea	5	Bogs, Depressions, Kettles	Yes	1, 3
	Tihonet	3	Bogs	Yes	2
	Freetown, sanded surface	2	Bogs, Depressions, Kettles	Yes	1, 3
704A: Freetown and Swansea coarse sands, 0 to 3 percent slopes, sanded surface and inactive	Freetown, sanded surface, inactive	45	Depressions	Yes	1, 4
	Swansea, sanded surface, inactive	45	Depressions	Yes	1, 3
	Rainberry, sanded surface	5	Depressions, Kettles	Yes	2, 4
	Tihonet	5	Outwash plains	Yes	2, 4

## 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 Folist.
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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