

Hydric Soil Interpretations For Kennebec County, Maine

Definition of Hydric Soil

A hydric soil is a soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part. The following criteria reflect those soils that meet this definition.

Wetlands represent the collection of aquatic or semi aquatic habitats commonly referred to as marshes, swamps, and bogs. The U.S. Natural Resources Conservation Service, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency define wetlands by the presence of wetland vegetation (hydrophytes) and hydrology (degree of flooding and/or soil saturation) and by reference to wet soils (hydric soils). The prevalence of hydrophytes and the presence of wet soil reflect the long-term hydrology and therefore, are useful indicators of wetland. Some of the benefits of wetlands include, waterfowl breeding, habitat for waterfowl and other birds, flood control, water quality, shoreline stabilization and others.

If wetlands are identified as a critical resource, then a good first step would be to inventory the extent of hydric soils that were mapped in a soil survey.

It is important to remember that because of map scale very small areas of hydric soils are often not shown on the soil survey. The soil survey provides a general location of hydric soils; however, it is necessary that the exact wetland boundary be located in the field. When the boundary is not clear, consult with technical experts. The publications *Hydric soils of New England* and *Federal Manual for Identifying and Delineating Jurisdictional Wetlands* provide a more detailed discussion on hydric soils as well as on-site identification of wetland boundaries. Other sources of wetland information are the U.S. Fish and Wildlife Service, *National Wetland Inventory Maps* and the *Maine Department of Environmental Protection Inland Wetland Maps*.

Hydric Soil List

Hydric soils are developed under conditions sufficiently wet to support the growth and regeneration of hydrophytic vegetation. The listing available below includes phases of soil series that may or may not have been drained. Some soil series, designated as hydric, have phases that are not hydric depending on water table, flooding, and ponding characteristics.

The list will have a number of agricultural and nonagricultural applications. These include assistance in land-use planning, conservation planning, and assessment of potential wildlife habitat. An area that meets the hydric soil criteria must also meet the hydrophytic vegetation and wetland hydrology criteria in order for it to be classified as a jurisdictional wetland (See the "Corps of Engineers Wetlands Delineation Manual", 1987).

Hydric Soils List

Kennebec County, Maine

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria			Acres
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria	
BhB: BERKSHIRE FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES	BERKSHIRE	No	---	---	---	---	---	292
BkB: BERKSHIRE VERY STONY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES	BERKSHIRE	No	---	---	---	---	---	3,076
BkC: BERKSHIRE VERY STONY FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES	BERKSHIRE	No	---	---	---	---	---	9,896
BkD: BERKSHIRE VERY STONY FINE SANDY LOAM, 15 TO 30 PERCENT SLOPES	BERKSHIRE	No	---	---	---	---	---	2,008
Bo: BIDDEFORD MUCKY PEAT	BIDDEFORD	Yes	Marine Terrace	2B3,3	Yes	No	Yes	7,816
Bp: BOROSAPRISTS, PONDED	BOROSAPRISTS	Yes	Swamp	1,3	No	No	Yes	26
BuB2: BUXTON SILT LOAM, 3 TO 8 PERCENT SLOPES, ERODED	BUXTON	No	---	---	---	---	---	30,506
BuC2: BUXTON SILT LOAM, 8 TO 15 PERCENT SLOPES, ERODED	BUXTON	No	---	---	---	---	---	10,780
BuD2: BUXTON SILT LOAM, 15 TO 25 PERCENT SLOPES, ERODED	BUXTON	No	---	---	---	---	---	62
CF: CUT AND FILL LAND	CUT AND FILL LAND	No	---	---	---	---	---	657
DeB: DEERFIELD LOAMY FINE SAND, 0 TO 8 PERCENT SLOPES	DEERFIELD	No	---	---	---	---	---	1,822
DL: DUNE LAND	DUNE LAND	No	---	---	---	---	---	158
DxB: DIXMONT SILT LOAM, 3 TO 8 PERCENT SLOPES	DIXMONT	No	---	---	---	---	---	2

Hydric Soils List - Continued

Kennebec County, Maine

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria			Acres
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria	
DxC: DIXMONT SILT LOAM, 8 TO 15 PERCENT SLOPES	DIXMONT	No	---	---	---	---	---	<1
DyB: DIXMONT VERY STONY SILT LOAM, 3 TO 8 PERCENT SLOPES	DIXMONT	No	---	---	---	---	---	13
DyC: DIXMONT VERY STONY SILT LOAM, 8 TO 15 PERCENT SLOPES	DIXMONT	No	---	---	---	---	---	<1
GP: GRAVEL PITS	GRAVEL PITS	No	---	---	---	---	---	1,045
Ha: HADLEY SILT LOAM	HADLEY	No	---	---	---	---	---	258
HfC: HARTLAND VERY FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES	HARTLAND	No	---	---	---	---	---	5,913
HfD: HARTLAND VERY FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES	HARTLAND	No	---	---	---	---	---	3,167
HkB: HINCKLEY GRAVELLY SANDY LOAM, 3 TO 8 PERCENT SLOPES	HINCKLEY	No	---	---	---	---	---	3,242
HkC: HINCKLEY GRAVELLY SANDY LOAM, 8 TO 15 PERCENT SLOPES	HINCKLEY	No	---	---	---	---	---	6,280
HkD: HINCKLEY GRAVELLY SANDY LOAM, 15 TO 30 PERCENT SLOPES	HINCKLEY	No	---	---	---	---	---	2,536
HrB: HOLLIS FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES	HOLLIS	No	---	---	---	---	---	18,738
HrC: HOLLIS FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES	HOLLIS	No	---	---	---	---	---	59,114

Hydric Soils List - Continued

Kennebec County, Maine

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria			Acres
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria	
HrD: HOLLIS FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES	HOLLIS	No	---	---	---	---	---	5,587
HtB: HOLLIS-ROCK OUTCROP COMPLEX, 3 TO 8 PERCENT SLOPES	HOLLIS	No	---	---	---	---	---	1,436
HtC: HOLLIS-ROCK OUTCROP COMPLEX, 8 TO 15 PERCENT SLOPES	HOLLIS	No	---	---	---	---	---	6,652
	ROCK OUTCROP	No	---	---	---	---	---	2,112
HtD: HOLLIS-ROCK OUTCROP COMPLEX, 15 TO 30 PERCENT SLOPES	HOLLIS	No	---	---	---	---	---	1,526
	ROCK OUTCROP	No	---	---	---	---	---	449
Lk: LIMERICK SILT LOAM	LIMERICK	Yes	Flood Plain	2B3	Yes	No	No	2,189
LyB: LYMAN LOAM, 3 TO 8 PERCENT SLOPES	LYMAN	No	---	---	---	---	---	475
LyC: LYMAN LOAM, 8 TO 15 PERCENT SLOPES	LYMAN	No	---	---	---	---	---	3,610
LyD: LYMAN LOAM, 15 TO 25 PERCENT SLOPES	LYMAN	No	---	---	---	---	---	3,305
LzC: LYMAN-ROCK OUTCROP COMPLEX, 8 TO 15 PERCENT SLOPES	LYMAN	No	---	---	---	---	---	1,144
	ROCK OUTCROP	No	---	---	---	---	---	357
ML: MADE LAND	MADE LAND	No	---	---	---	---	---	452
MoA: MONARDA SILT LOAM	MONARDA	Yes	Ground Moraine	2B3	Yes	No	No	2,470
MrA: MONARDA VERY STONY SILT LOAM	MONARDA	Yes	Ground Moraine	2B3	Yes	No	No	12,540

Hydric Soils List - Continued

Kennebec County, Maine

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria			Acres
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria	
PbB: PAXTON FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES	PAXTON	No	---	---	---	---	---	3,585
PbC: PAXTON FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES	PAXTON	No	---	---	---	---	---	2,349
PcB: PAXTON VERY STONY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPE S	PAXTON	No	---	---	---	---	---	2,288
PcC: PAXTON VERY STONY FINE SANDY LOAM, 8 TO 15 PERCENT SLOP ES	PAXTON	No	---	---	---	---	---	10,186
PcD: PAXTON VERY STONY FINE SANDY LOAM, 15 TO 25 PERCENT SLOP ES	PAXTON	No	---	---	---	---	---	2,199
PdB: PAXTON-CHARLTON FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES	PAXTON	No	---	---	---	---	---	7,947
	CHARLTON	No	---	---	---	---	---	3,461
PdC2: PAXTON-CHARLTON FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPE S, ERODED	PAXTON	No	---	---	---	---	---	4,931
	CHARLTON	No	---	---	---	---	---	2,055
PdD2: PAXTON-CHARLTON FINE SANDY LOAMS, 15 TO 25 PERCENT SLOP ES, ERODED	PAXTON	No	---	---	---	---	---	288
	CHARLTON	No	---	---	---	---	---	120
PeB: PAXTON-CHARLTON VERY STONY FINE SANDY LOAMS, 3 TO 8 PER CENT SLOPES	PAXTON	No	---	---	---	---	---	5,732
	CHARLTON	No	---	---	---	---	---	2,388

Hydric Soils List - Continued

Kennebec County, Maine

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria			Acres
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria	
PeC: PAXTON-CHARLTON VERY STONY FINE SANDY LOAMS, 8 TO 15 PE RCENT SLOPES	PAXTON	No	---	---	---	---	---	24,408
	CHARLTON	No	---	---	---	---	---	10,170
PeD: PAXTON-CHARLTON VERY STONY FINE SANDY LOAMS, 15 TO 30 P ERCENT SLOPES	PAXTON	No	---	---	---	---	---	3,940
	CHARLTON	No	---	---	---	---	---	1,642
PfB: PERU FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES	PERU	No	---	---	---	---	---	561
PkB: PERU VERY STONY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES	PERU	No	---	---	---	---	---	6,198
PkC: PERU VERY STONY FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES	PERU	No	---	---	---	---	---	474
QU: QUARRIES	QUARRIES	No	---	---	---	---	---	10
RcA: RIDGEBURY FINE SANDY LOAM	RIDGEBURY	Yes	Ground Moraine	2B3	Yes	No	No	3,433
RdA: RIDGEBURY VERY STONY FINE SANDY	RIDGEBURY	Yes	Ground Moraine	2B3	Yes	No	No	23,855
RF: RIFLE MUCKY PEAT	RIFLE	Yes	Swamp	1,3	No	No	Yes	3,318
SA: SACO SOILS	SACO	Yes	Flood Plain	2B3,3,4	Yes	Yes	Yes	505
ScA: SCANTIC SILT LOAM	SCANTIC	Yes	Marine Terrace	2B3	Yes	No	No	33,212
Sd: SCARBORO MUCKY PEAT	SCARBORO	Yes	Outwash Plain	2B3,3	Yes	No	Yes	1,778
SkB: SCIO VERY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES	SCIO	No	---	---	---	---	---	12,197

Hydric Soils List - Continued

Kennebec County, Maine

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria			Acres
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria	
SkC2: SCIO VERY FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES, EROD ED	SCIO	No	---	---	---	---	---	1,445
SuC2: SUFFIELD SILT LOAM, 8 TO 15 PERCENT SLOPES, ERODED	SUFFIELD	No	---	---	---	---	---	2,821
SuD2: SUFFIELD SILT LOAM, 15 TO 25 PERCENT SLOPES, ERODED	SUFFIELD	No	---	---	---	---	---	4,700
SuE2: SUFFIELD SILT LOAM, 25 TO 45 PERCENT SLOPES, ERODED	SUFFIELD	No	---	---	---	---	---	1,654
TO: TOGUS FIBROUS PEAT	TOGUS	Yes	Bog	1,3	No	No	Yes	5,592
VA: VASSALBORO FIBROUS PEAT	VASSALBORO	Yes	Bog	1,3	No	No	Yes	1,380
W: WATER BODIES	WATER	Yes	Lake	---	---	---	---	55,597
WmB: WINDSOR LOAMY SAND, 3 TO 8 PERCENT SLOPES	WINDSOR	No	---	---	---	---	---	2,619
WmC: WINDSOR LOAMY SAND, 8 TO 15 PERCENT SLOPES	WINDSOR	No	---	---	---	---	---	4,069
WmD: WINDSOR LOAMY SAND, 15 TO 30 PERCENT SLOPES	WINDSOR	No	---	---	---	---	---	1,000
Wn: WINOOSKI SILT LOAM	WINOOSKI	No	---	---	---	---	---	413
WrB: WOODBIDGE FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES	WOODBIDGE	No	---	---	---	---	---	18,263
WrC: WOODBIDGE FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES	WOODBIDGE	No	---	---	---	---	---	604

Hydric Soils List - Continued

Kennebec County, Maine

Map Symbol and Map Unit Name	Component	Hydric	Local Landform	Hydric Criteria Code	Hydric Soils Criteria			Acres
					Meets Saturation	Meets Flooding Criteria	Meets Ponding Criteria	
WsB: WOODBIDGE VERY STONY FINE SANDY LOAM, 3 TO 8 PERCENT S LOPES	WOODBIDGE	No	---	---	---	---	---	47,553
WsC: WOODBIDGE VERY STONY FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES	WOODBIDGE	No	---	---	---	---	---	2,370