

Key to the Soil Series of Vermont

USDA Natural Resources Conservation Service
December 2015

PARENT MATERIAL	NATURAL SOIL DRAINAGE CLASS						
	Excessively Drained	Somewhat Excessively Drained	Well Drained	Moderately Well Drained	Somewhat Poorly Drained	Poorly Drained	Very Poorly Drained
<i>Soil Temperature Regime</i>							
A. Alluvial Deposits	Soils formed in stratified material of mixed composition deposited by running water on floodplains						
Coarse-Silty Deposits							
<i>Mesic</i>			Hadley Hamlin	Winooski Teel		Limerick	Saco
<i>Frigid</i>			Fryeburg			Charles <i>Limerick Variant</i>	Medmak
Coarse-Loamy Deposits							
<i>Mesic</i>			Tioga	Middlebury			
Sandy Deposits							
<i>Frigid</i>	Sunday						
Coarse-Silty over Organic Deposits							
<i>Mesic</i>							Elvers
Fine-Loamy over Organic Deposits							
<i>Mesic</i>							Walkill
Coarse-Loamy over Sand or Gravel Deposits							
<i>Mesic</i>			Occum <i>Ondawa Variant</i> Wappinger	Pootatuck <i>Podunk Variant</i> Pawling		Rippowam <i>Rumney Variant</i>	
<i>Frigid</i>			Ondawa Waitsfield	Podunk Weider		Rumney Sunny	
B. Glaciolacustrine Deposits	Soils formed in finely stratified lacustrine and marine sediments deposited under calm water in former glacial lake and marine areas						
Clay Deposits (some with silty layers)							
<i>Mesic</i>				Vergennes <i>Vergennes Variant *</i>	Kingsbury	Covington Panton	Livingston
<i>Frigid</i>				Buxton	Lamoine	Scantic <i>Scantic Variant</i>	
Fine-Silty Deposits							
<i>Mesic</i>						Canandaigua	Canandaigua
<i>Frigid</i>				Boothbay		Swanville	
Coarse-Silty Deposits							
<i>Mesic</i>			Hartland Hitchcock Unadilla	Belgrade	<i>Belgrade SWPD Variant</i>	Raynham Binghamville <i>Raynham Variant</i>	Birdsall
<i>Frigid</i>			Salmon Adamant * <i>Salmon Variant *</i>	Nicholville		Roundabout	
Coarse-Silty over Clay Deposits							
<i>Mesic</i>					Munson		
Coarse-Loamy over Clay Deposits							
<i>Mesic</i>				Elmridge			
<i>Frigid</i>			Melrose	Elmwood		Swanton	Whately
Sandy over Loamy Deposits							
<i>Mesic</i>			Hinesburg	Eldridge		Enosburg	
<i>Frigid</i>				Irasburg		Nasmith	
Sandy over Clay Deposits							
<i>Frigid</i>				<i>Elmwood Variant</i>			
C. Glaciofluvial Deposits	Soils formed in sandy to gravelly material deposited by glacial meltwater on kames, eskers, deltas, terraces and outwash plains						
Sand Deposits							
<i>Mesic</i>	Windsor			Deerfield	Wareham	Wareham	Scarboro
<i>Frigid</i>	Missisquoi	Adams	<i>Adams Variant *</i>	Croghan	Au Gres		Searsport
Coarse-Silty over Sand or Gravel Deposits							
<i>Mesic</i>				Tisbury			
Coarse-Loamy Deposits high in coarse fragments							
<i>Mesic</i>		Warwick	Kars	Castile			
Stratified Sand and Gravel Deposits							
<i>Mesic</i>	Groton Hinckley Quonset	Merrimac		Sudbury		Walpole	
<i>Frigid</i>	Colton		Stetson	Duane Sheepscot			
Coarse-Loamy over Sand or Gravel Deposits							
<i>Mesic</i>			Agawam Copake	Hero Ninigret	Fredon		
<i>Frigid</i>			Allagash Duxbury	Machias		Grange Moosilauke	

D. Till w/ friable substratum		Soils formed in poorly sorted till deposited or transported by glacial ice on uplands					
Fine-Loamy Till							
<i>Mesic</i>						Kendaia	Lyons Lyons
Coarse-Loamy Till							
<i>Mesic</i> carbonates less than 40 in. no spodic horizon	Galoo #	Farmington # Galoo #	Farmington # Farmington Variant * Galway * Nellis	Amenia	Massena	Massena	
<i>Mesic</i> carbonates deeper than 40 in. no spodic horizon			Dutchess Lordstown * Pittsfield St Albans Stockbridge	Georgia	Massena	Massena	
<i>Frigid</i> no spodic horizon		Glover # Woodstock #	Colrain Dummerston Lombard Vershire *				
<i>Frigid</i> thin spodic horizon		Lyman #	Tunbridge * Berkshire	Sunapee		Lyme	
<i>Frigid</i> thick spodic horizon			Hogback # Houghtonville Rawsonville *				
<i>Cryic</i> elevation greater than 2500 ft			Glebe * Londonderry # Saddleback #				
Coarse-Loamy Till - high in coarse fragments							
<i>Mesic</i> carbonates less than 40 in.		Benson #	Palatine *				
<i>Mesic</i> carbonates greater than 40 in.		Nassau #					
<i>Frigid</i> no spodic horizon	Hubbardton #	Taconic #	Macomber *				
<i>Frigid</i> thick spodic horizon		Killington #					
<i>Cryic</i> elevation greater than 2500 ft thick spodic horizon			Stratton #				
Coarse-Loamy over Gravelly Sandy Till							
<i>Frigid</i> thin spodic horizon			Monadnock				
Sandy Till and/or Residuum							
<i>Frigid</i> no spodic horizon		Pomfret @ Teago *					
Thin Organic Deposits over Thin Coarse-Loamy Till and/or Bedrock							
<i>Cryic</i>			Ricker #				
E. Till w/ dense substratum		Soils formed in poorly sorted, dense basal till deposited or transported by glacial ice on uplands					
Coarse-Loamy Dense Till							
<i>Mesic</i> no spodic horizon			Paxton	Bomoseen Pittstown			Mansfield
<i>Frigid</i> no spodic horizon			Shelburne Stowe <i>Calais</i>	Buckland Fullam		Brayton Cabot	Peacham
<i>Frigid</i> thin spodic horizon			Marlow Potsdam	Peru Skerry	Colonel Westbury		
<i>Frigid</i> thick spodic horizon				Mundal	Worden	Wilmington	
<i>Cryic</i> elevation greater than 2500 ft thick spodic horizon			Sisk				
F. Organic Deposits		Very poorly drained soils formed in organic materials (OM) of varying depth, typically in wetlands					
	Soil Temperature Class	Reaction Class	16 to 50 inches of OM over sandy material	16 to 50 inches of OM over loamy material	More than 50 inches of organic material		
Moderately Decomposed Organic Material							
	<i>Mesic</i>	Euic			Balch		
	<i>Frigid</i>	Euic			Rifle		
Highly Decomposed Organic Material							
	<i>Mesic</i>	Euic	Adrian	Linwood	Carlisle Pinnebog		
	<i>Frigid</i>	Euic	Markey Pondicherry	Wonsqueak	Bucksport Lupton		

FOOTNOTES

denotes soils with bedrock within 20 inches of the surface; * denotes soils with bedrock between 20 and 40 inches below the surface.

@ denotes Pomfret soils, which have bedrock starting at depths as shallow as 40 inches. All other soils have bedrock at depths greater than 60 inches.

Soil series in *italics* are inactive series and are not currently mapped.

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