

18C: Cabot silt loam, 8 to 15 percent slopes, very stony

The Cabot, very stony component makes up 85 percent of the map unit. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. This component is on mountains on glaciated uplands, hills on glaciated uplands. The parent material consists of loamy lodgment till derived from mica schist and/or loamy lodgment till derived from limestone. Depth to a root restrictive layer, densic material, is 10 to 20 inches.

Important farmland classification: NPSL

Land capability: 6 s

Vermont Agricultural Value Group: 10

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIId

This unit is marginally suited as a site for soil-based residential wastewater disposal systems, based on a review by the Natural Resources Conservation Service of criteria set forth in the Vermont 2007 Environmental Protection Rules. The depth to the seasonal high water table is the major limitation. A detailed, site-specific analysis is generally required. On-site groundwater level monitoring and determination of induced groundwater mounding is often necessary to establish the suitability of this unit. Curtain drains may help lower the water table to an acceptable level.

PHYSICAL and CHEMICAL PROPERTIES							EROSION FACTORS		
Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	Kw	Kf	T
Cabot, very stony	0-1	SPM	---	3.2 - 5.7	1-14	35-95	---	---	2
	1-9	SIL	1-15	5.1 - 7.3	0.1-14	3.5-20	.49	.49	
	9-14	SIL	1-15	5.1 - 7.3	0.1-14	0.3-4.0	.55	.55	
	14-17	CN-SIL	1-15	5.1 - 7.3	0.1-14	0.2-2.0	.43	.64	
	17-22	CN-FSL	1-15	5.1 - 7.3	0.001-1	0.1-1.0	.32	.49	
	22-65	CN-SIL	1-15	5.6 - 7.8	0.001-1	0.1-1.0	.37	.64	

WATER FEATURES						SOIL FEATURES		
Soil name	Hydrologic group	Depth to seasonal high water table (Feet)	Flooding		Ponding		Hydric soil?	Depth to bedrock (range in inches)
			Frequency	Duration	Frequency	Duration		
Cabot, very stony	D	0.0-1.5	None		None		Yes	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Cabot, very stony	Dwellings with basements:	Very limited	Depth to saturated zone	Pasture	2.7 AUM
Cabot, very stony	Pond reservoir areas:	Very limited	Slope		

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Cabot	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	Red Maple-Black Ash Swamp, Spruce-Fir-Tamarack Swamp, Lowland Spruce-Fir Forest, Alder Swamp,
Cabot	Road suitability:	Moderately suited	Slope	
Cabot	Erosion hazard (off-road):	Moderate	Slope/erodibility	Northern White Cedar Swamp, Calcareous Red Maple-Tamarack Swamp