

**SIE12N: Cabot-Colonel complex, 8 to 15 percent slopes**

The Cabot component makes up 49 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 hills, mountains. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 10 to 20 inches.

The Colonel component makes up 33 percent of the map unit. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. This component is on hills, mountains. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 10 to 20 inches.

**Important farmland classification:** Statewide (b) **Land capability:** 3 e **Vermont Agricultural Value Group:** 7d

**Vermont Residential Onsite Waste Disposal Group and Subgroup:** III d

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	0-7	SIL	1-15	5.1 - 7.3	0.1-14	3.5-20	.43	.43	2
	7-13	FSL	1-15	5.1 - 7.3	0.1-14	0.3-3.5	.49	.49	
	13-65	FSL	1-15	5.6 - 7.8	0.001-1	0.2-1.0	.43	.43	
Colonel	0-7	FSL	1-10	3.5 - 6.5	0.1-14	4.0-13	.37	.37	2
	7-9	FSL	1-10	3.5 - 6.5	0.1-14	2.0-10	.37	.37	
	9-12	FSL	1-10	3.5 - 6.5	0.1-14	2.0-6.0	.37	.37	
	12-18	GR-FSL	1-10	3.5 - 6.5	0.1-14	0.5-2.0	.37	.55	
	18-65	GR-FSL	1-10	4.5 - 7.3	0.001-1	0.0-1.0	.37	.49	

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	D	0.0-1.5	None		None		Yes	---
Colonel	D	0.5-1.5	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Colonel	Dwellings with basements:	Very limited	Depth to saturated zone	Corn silage	13 Tons
Cabot	Dwellings with basements:	Very limited	Depth to saturated zone	Grass-clover	5.6 AUM
				Grass-legume hay	3.5 Tons
				Grass-legume hay	3 Tons
				Corn silage	14 Tons
				Pasture	5.5 AUM

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

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Cabot	Erosion hazard (off-road):	Moderate	Slope/erodibility
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