259B: Colonel-Cabot complex, 3 to 8 percent slopes, very stony

The Colonel, very stony component makes up 63 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.

The Cabot, very stony component makes up 25 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.

Important farmland classification: NPSL	Land capability: 6 s	Vermont Agricultural Value Group: 10

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIc

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 in association with the minimal slope 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, however, the minimal slope may prevent their use in many areas.

PHYSICAL and CHEMICAL PROPERTIES

Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS Kw	Kf	T
Colonel, very stony	0-1	HPM	---	3.5 - 5.5	1-14	35-95	---	---	2
	1-2	FSL	1-10	3.5 - 6.5	0.1-14	1.0-6.0	.43	.43	
	2-3	FSL	1-10	3.5 - 6.5	0.1-14	4.0-18	.37	.37	
	3-9	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	
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 Frequency	Flooding Duration	Ponding Frequency	Ponding Duration	Hydric soil?	Depth to bedrock (range in inches)
Colonel, very stony	D	0.5-1.5	None		None		No	---
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
Colonel, very stony	Dwellings with basements:	Very limited	Depth to saturated zone	Pasture	2 AUM
Cabot, very stony	Dwellings with basements:	Very limited	Depth to saturated zone	Pasture	2.7 AUM

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Colonel	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest, Lowland Spruce-Fir Forest, Hemlock Forest
Cabot	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	

Colonel	Road suitability:	Poorly suited	Wetness
Cabot	Road suitability:	Moderately suited	Wetness
Colonel	Erosion hazard (off-road):	Slight	
Cabot	Erosion hazard (off-road):	Slight	