72D: Colonel-Cabot complex, 15 to 25 percent slopes

The Colonel 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 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: 4 e	Vermont Agricultural Value Group: 8d

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIe

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 and slopes greater than 20 percent in some areas are the major limitations. 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. There may be less-sloping areas within the unit that are suitable for siting a septic system, or, if feasible, cut and fill site modifications may produce an acceptable area within the unit. An erosion prevention and sediment control plan is required by the State for construction on sites over 20 percent slope.

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	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	
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	

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

LAND USE LIMITATIONS

Soil name	Land use	Rating	Reason **
Colonel	Dwellings with basements:	Very limited	Slope
Cabot	Dwellings with basements:	Very limited	Slope

AGRICULTURAL YIELD DATA

Crop name	Yield / acre
Pasture	5 AUM
Grass-clover	4.8 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	Slope	
Cabot	Road suitability:	Poorly suited	Slope	

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