87C: Colonel-Cabot complex, 3 to 15 percent slopes, extremely bouldery

The Colonel, extremely bouldery 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, extremely bouldery 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: 7 s	Vermont Agricultural Value Group: 11

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIId

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

Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS Kw	Kf	T
Colonel, extremely bouldery	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, extremely bouldery	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, extremely bouldery	D	0.5-1.5	None		None		No	---
Cabot, extremely bouldery	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, extremely bouldery	Dwellings with basements:	Very limited	Depth to saturated zone	Pasture	2 AUM
				Pasture	2.7 AUM
Cabot, extremely bouldery	Dwellings with basements:	Very limited	Depth to saturated zone		

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,

Cabot	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	Hemlock Forest
Colonel	Road suitability:	Poorly suited	Rock fragments	
Cabot	Road suitability:	Poorly suited	Rock fragments	
Colonel	Erosion hazard (off-road):	Slight		
Cabot	Erosion hazard (off-road):	Slight		