

**SIE42: Tunbridge-Colonel-Cabot complex, 8 to 15 percent slopes, very stony**

The Colonel, very stony component makes up 35 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 Tunbridge, very stony component makes up 35 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is low. This component is on mountains, hills. The parent material consists of loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Cabot, very stony component makes up 12 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.

<b>Important farmland classification:</b> NPSL	<b>Land capability:</b> 6 s	<b>Vermont Agricultural Value Group:</b> 9
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**Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIf**

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 the restricted depth to bedrock in some areas are the major limitations. On-site investigations can help avoid areas with limited depth to bedrock. Additional fill material may be needed in some areas in order to meet the separation distance requirement between the bottom of the leachfield and bedrock. A detailed, site-specific analysis with groundwater level monitoring and determination of induced groundwater mounding may be required to establish the suitability of this unit. Mound system construction and other site modifications are often necessary. On sloping sites, curtain drains can 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
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	
Tunbridge, very stony	0-3	MPM	---	3.5 - 5.5	1-14	35-95	---	---	2
	3-5	HPM	---	3.5 - 5.5	1-14	35-95	---	---	
	5-8	FSL	1-10	3.5 - 6.0	0.1-14	1.4-5.7	.37	.37	
	8-11	FSL	1-10	3.5 - 6.0	0.1-14	3.1-25	.32	.32	
	11-26	FSL	1-10	3.5 - 6.0	0.1-14	2.2-18	.37	.37	
	26-28	FSL	1-10	5.1 - 6.5	0.1-14	1.0-4.2	.43	.43	
	28-38	BR	---	---	0.001-14	---	---	---	
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		
Colonel, very stony	D	0.5-1.5	None		None		No	---
Tunbridge, very stony	C	---	None		None		No	20-40
Cabot, very stony	D	0.0-1.5	None		None		Yes	---

# Soil Fact Sheet - Continued

Essex County, Vermont

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	3.1 AUM
Tunbridge, very stony	Dwellings with basements:	Very limited	Depth to hard bedrock	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
Tunbridge	Harvest equip operability:	Moderately suited	0.1 to 3% surface cover fragments >=600mm (m bouldery)	
Cabot	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	
Colonel	Road suitability:	Poorly suited	Wetness	
Tunbridge	Road suitability:	Moderately suited	Slope	
Cabot	Road suitability:	Moderately suited	Slope	
Colonel	Erosion hazard (off-road):	Moderate	Slope/erodibility	
Tunbridge	Erosion hazard (off-road):	Slight		
Cabot	Erosion hazard (off-road):	Moderate	Slope/erodibility	