

## SIE42N: Tunbridge-Colonel-Cabot complex, 8 to 15 percent slopes, rocky

The Colonel, rocky 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, rocky 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 hills, mountains. The parent material consists of loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Cabot, rocky 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.

Important farmland classification: Statewide (b)	Land capability: 3 e	<u>Vermont Agricultural Value Group:</u> 7d
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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					EDOSION FACTORS				
0-1	Depth	Depth Typical (In) texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS		
Soil name							Kw	Kf	Т
Colonel, rocky	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	
Tunbridge, rocky	0-7	FSL	1-10	3.5 - 6.0	0.1-14	4.0-13	.32	.32	2
	7-8	FSL	1-10	3.5 - 6.0	0.1-14	3.1-25	.37	.37	
	8-23	FSL	1-10	3.5 - 6.0	0.1-14	2.2-18	.37	.37	
	23-25	FSL	1-10	5.1 - 6.5	0.1-14	1.0-4.2	.43	.43	
	25-35	BR			0.001-14				
Cabot, rocky	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		
	Hydrologic	Depth to seasonal	Floo	ding	Pon	ding	Hydric			
Soil name	group	high water table (Feet)	Frequency	Duration	Frequency	Duration	soil?	Depth to bedrock (range in inches)		
Colonel, rocky	D	0.5-1.5	None		None		No			
Tunbridge, rocky	С		None		None		No	20-39		
Cabot, rocky	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, rocky	Dwellings with basements:	Very limited	Depth to saturated zone	Grass-clover	5.6 AUM	
Cabot, rocky Tunbridge, rocky	Dwellings with basements:  Dwellings with basements:	, , , , , ,	Depth to saturated zone Depth to hard bedrock	Grass-legume hay Corn silage	3.5 Tons 18 Tons	

Grass-legume hay	3 Tons	
Corn silage	14 Tons	
Pasture	5.5 AUM	
Corn silage	13 Tons	
Grass-clover	5.6 AUM	
Grass-legume hay	3.5 Tons	

	Management	WOODLAND MANAGEMENT				
Soil name	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			
Tunbridge	Harvest equip operability:	Well suited				
Colonel	Road suitability:	Poorly suited	Wetness			
Cabot	Road suitability:	Moderately suited	Slope			
Tunbridge	Road suitability:	Moderately suited	Slope			
Colonel	Erosion hazard (off-road):	Moderate	Slope/erodibility			
Cabot	Erosion hazard (off-road):	Moderate	Slope/erodibility			
Tunbridge	Erosion hazard (off-road):	Slight				