

**SIE21: Wilmington-Colonel complex, 0 to 8 percent slopes, very stony**

The Wilmington, very stony component makes up 47 percent of the map unit. The natural drainage class is 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 Colonel, very stony component makes up 31 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.

**Important farmland classification:** NPSL

**Land capability:** 6 s

**Vermont Agricultural Value Group:** 10

**Vermont Residential Onsite Waste Disposal Group and Subgroup:** IVa

This unit is generally not 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. Excessive soil wetness in association with the minimal slope is the limiting condition. Prolonged periods of saturation at or near the soil surface do not allow for the proper functioning of septic systems.

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
Wilmington, very stony	0-6	HPM	---	3.5 - 5.5	2-6	35-100	---	---	2
	6-7	SL	1-15	3.5 - 6.0	0.6-2	1.0-7.5	.32	.32	
	7-17	FSL	1-15	3.5 - 6.0	0.6-2	1.0-6.0	.32	.32	
	17-65	GR-FSL	1-15	5.1 - 6.5	0.06-0.6	0.0-0.3	.28	.49	
Colonel, very stony	0-0	SPM	---	3.5 - 5.5	2-6	35-100	---	---	2
	0-4	FSL	1-15	3.5 - 6.5	0.6-2	2.0-10	.32	.32	
	4-6	FSL	1-15	3.5 - 6.5	0.6-2	1.0-10	.37	.37	
	6-14	GR-FSL	1-15	3.5 - 6.5	0.6-2	1.0-7.5	.24	.37	
	14-65	GR-SL	1-15	5.6 - 6.5	0.06-0.6	0.0-0.3	.28	.43	

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		
Wilmington, very stony	D	0.0-1.5	None		None		Yes	---
Colonel, very stony	D	0.5-1.5	None		None		No	---

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 AUM
Wilmington, very stony	Dwellings with basements:	Very limited	Depth to saturated zone		
Colonel, very stony	Pond reservoir areas:	Somewhat limited	Slope		
Wilmington, very stony	Pond reservoir areas:	Somewhat limited	Slope		

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Colonel	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	Lowland Spruce-Fir Forest
Wilmington	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	
Colonel	Road suitability:	Poorly suited	Wetness	
Wilmington	Road suitability:	Poorly suited	Wetness	

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Colonel	Erosion hazard (off-road):	Slight
Wilmington	Erosion hazard (off-road):	Slight