

SIE21 Wilmington-Colonel complex, 3 to 8 percent slopes

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The Wilmington 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 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.

<u>Important farmland classification:</u>	<u>Land capability:</u> 3 w	<u>Vermont Agricultural Value Group:</u> 6d
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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	0-8	SL	1-15	3.5 - 6.0	0.6-2	2.0-10	.32	.32	2
	8-17	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	0-6	FSL	1-15	3.5 - 6.5	0.6-2	2.0-12	.32	.32	2
	6-14	GR-FSL	1-15	3.5 - 6.5	0.6-2	1.0-10	.24	.37	
	14-65	GR-SL	1-15	4.5 - 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	D	0.0-1.5	None		None		Yes	---
Colonel	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	Dwellings with basements:	Very limited	Depth to saturated zone	Pasture	3 AUM
Wilmington	Dwellings with basements:	Very limited	Depth to saturated zone	Pasture	5.5 AUM
Colonel	Pond reservoir areas:	Somewhat limited	Slope	Grass-legume hay	3 Tons
Wilmington	Pond reservoir areas:	Somewhat limited	Slope	Grass hay	3 Tons
				Corn silage	16 Tons
				Alfalfa hay	3 Tons

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:	Moderately suited	Wetness	
Colonel	Erosion hazard (off-road):	Slight		
Wilmington	Erosion hazard (off-road):	Slight		

