

**SIE33N: Peru-Colonel complex, 15 to 25 percent slopes**

The Dixfield component makes up 56 percent of the map unit. The natural drainage class is moderately well 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 20 to 36 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> NPSL	<u>Land capability:</u> 4 e	<u>Vermont Agricultural Value Group:</u> 8
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIId

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							EROSION FACTORS		
Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	Kw	Kf	T
Peru	0-8	SL	1-15	3.5 - 6.5	0.6-2	2.0-10	.24	.24	3
	8-13	SL	1-15	3.5 - 6.5	0.6-2	1.0-9.0	.28	.28	
	13-27	SL	1-15	3.5 - 6.5	0.6-2	0.5-4.5	.37	.37	
	27-65	SL	1-15	4.5 - 6.5	0.06-0.6	0.0-0.3	.43	.43	
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		
Peru	C	1.5-2.5	None		None		No	---
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
Peru	Dwellings with basements:	Very limited	Slope	Pasture	10.5 AUM
Colonel	Dwellings with basements:	Very limited	Slope	Grass-legume hay	4 Tons
				Corn silage	18 Tons
				Pasture	5 AUM

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Peru	Harvest equip operability:	Moderately suited	Slope	Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest, Hemlock Forest
Colonel	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	
Peru	Road suitability:	Poorly suited	Slope	
Colonel	Road suitability:	Poorly suited	Slope	
Peru	Erosion hazard (off-road):	Moderate	Slope/erodibility	
Colonel	Erosion hazard (off-road):	Moderate	Slope/erodibility	