

505D: Peru-Berkshire-Colton association, 3 to 35 percent slopes, very stony

The Peru, very stony component makes up 45 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 gently sloping to steep hills on glaciated uplands. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 20 to 36 inches.

The Berkshire, very stony component makes up 20 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. This component is on gently sloping to steep hills on glaciated uplands. The parent material consists of loamy till. Depth to a root restrictive layer is greater than 60 inches.

The Colton, very stony component makes up 20 percent of the map unit. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. This component is on outwash terraces on river valleys, gently sloping to steep hills on river valleys. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification:	NPSL	Land capability: 6 s	<u>Vermont Agricultural Value Group:</u> 10
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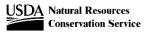
Vermont Residential Onsite Waste Disposal Group and Subgroup: Ille

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 slopes greater than 20 percent in some areas are the major limitations. 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. There may be less-sloping areas within the unit that are suitable for siting a septic system, or, if feasible, cut and fill site modifications may produce an acceptable area within the unit. An erosion prevention and sediment control plan is required by the State for construction on sites over 20 percent slope.

PHYSICAL and CHEMICAL PROPERTIES									EROSION FACTORS		
Soil name	Depth	Typical	Clay	Soil reaction	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS				
	(In)	texture	(Pct)	(pH)	(,)		Kw	Kf T			
Peru, very stony	0-2	SPM		3.2 - 5.7	2-6	25-100			3		
	2-4	FSL	3-10	4.5 - 6.0	0.6-2	2.0-6.0	.24	.24			
	4-22	FSL	3-10	4.5 - 6.0	0.6-2	0.5-4.5	.37	.37			
	22-65	FSL	3-10	4.5 - 6.0	0.06-0.6	0.0-1.0	.43	.43			
Berkshire, very stony	0-2	SPM		3.2 - 5.7	2-6	25-100			5		
	2-5	FSL	1-10	3.6 - 6.0	0.6-6	2.0-5.0	.24	.24			
	5-33	FSL	1-10	3.6 - 6.0	0.6-6	0.5-4.5	.28	.28			
	33-65	FSL	1-10	3.6 - 6.0	0.6-6	0.0-1.0	.49	.49			
Colton, very stony	0-2	SPM		3.2 - 5.7	2-6	25-100			5		
	2-7	FSL	2-12	3.6 - 6.5	6-20	2.0-6.0	.17	.17			
	7-14	GR-SL	0-5	3.6 - 6.0	6-20	0.5-2.0	.10	.24			
	14-22	GR-LS	0-5	3.6 - 6.0	6-20	0.5-2.0	.10	.17			
	22-65	GRV-LCOS	0-3	4.5 - 6.5	20-100	0.0-0.5	.05	.10			

WATER FEATURES							SOIL FEATURES		
Soil name	Hydrologic	Depth to seasonal high water table (Feet)	Flooding		Ponding		Hydric		
	group		Frequency	Duration	Frequency	Duration	soil?	Depth to bedrock (range in inches)	
Peru, very stony	С	1.5-2.5	None		None		No		
Berkshire, very stony	В		None		None		No		
Colton, very stony	Α		None		None		No		

LAND USE LIMITATIONS					AGRICULTURAL YIELD DATA		
Soil name	Land use	Rating	Reason **		Crop name	Yield / acre	
Berkshire, very stony	Dwellings with basements:	Very limited	Slope		Grass-legume hay	3 Tons	
Colton, very stony	Dwellings with basements:	Very limited	Slope		Grass-clover	5 AUM	



Road suitability:

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Erosion hazard (off-road): Moderate

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Erosion hazard (off-road): Moderate

Colton

Berkshire

Peru

Colton

Peru

Soil Fact Sheet - Continued

Windsor County, Vermont

Peru, very stony	Dwellings with basements:	Very limited	Depth to saturated zone	Corn silage	15 Tons		
Berkshire, very stony	Pond reservoir areas:	Very limited	Slope	Alfalfa hay	3.5 Tons		
Colton, very stony	Pond reservoir areas:	Very limited	Seepage				
Peru, very stony	Pond reservoir areas:	Very limited	Slope				
	Management		WOODLAND MANAGEMEN	<u>I</u>			
Soil name	concern	Rating	Reason	Vermont natural co	mmunities		
Berkshire	Harvest equip operability:	Well suited		Northern Hardwood Fores	-,		
Colton	Harvest equip operability:	Well suited		Red Spruce-Northern Hardwood Forest, Hemlock Forest			
Peru	Harvest equip operability:	Well suited		Heimock Folest			
			Slope				

Slope

Slope

Slope/erodibility

Slope/erodibility

Slope/erodibility

Poorly suited

Poorly suited