

Soil name

Lyman

## SIE55: Lyman-Knob Lock-Rock outcrop complex, 60 to 80 percent slopes, very stony

The Lyman, very stony component makes up 37 percent of the map unit. The natural drainage class is somewhat excessively 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 10 to 20 inches.

The Knob Lock, very stony component makes up 36 percent of the map unit. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is low. This component is on hills, mountains. The parent material consists of organic material over loamy till. Depth to a root restrictive layer, bedrock, lithic, is 1 to 20 inches.

The Rock outcrop, very stony component makes up 16 percent of the map unit. Water movement in the most restrictive layer is low. This component is on mountains, hills. Depth to a root restrictive layer0 inches, bedrock, lithic,.

Important farmland classification: NPSL	Land capability: 7 s	Vermont Agricultural Value Group: 11
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## Vermont Residential Onsite Waste Disposal Group and Subgroup: IVb

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. Steep slopes in association with the depth to bedrock is the limiting condition. Cut and fill site modifications that reduce the slope gradient are difficult to achieve due to the depth to bedrock.

PHYSICAL and CHEMICAL PROPERTIES						EDOSION EACTORS			
Soil name	Depth	Typical	Clay	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS		
	(In)	texture	(Pct)				Kw	Kf	Т
Lyman, very stony	0-1	SPM		3.5 - 5.5	0.6-6	35-100			1
	1-5	FSL	2-15	3.5 - 6.0	2-6	2.0-10	.37	.37	
	5-13	FSL	1-12	3.5 - 6.0	2-6	1.0-10	.37	.37	
	13-23	UWB			0.01-20				
Knob Lock, very stony	0-2	MPM		3.5 - 5.0	2-20	35-100			1
	2-4	HPM		3.5 - 5.0	2-6	35-100			
	4-5	FSL	2-15	3.5 - 5.0	0.6-6	1.0-10	.37	.37	
	5-15	UWB			0.01-20	0.0			
Rock outcrop, very stony	0-65	UWB			0.01-20				

WATER FEATURES							SOIL FEATURES		
	Hydrologic	Depth to seasonal	Flooding		Ponding		Hydric		
Soil name	group	high water table (Feet)	Frequency	Duration	Frequency	Duration	soil?	Depth to bedrock (range in inches)	
Lyman, very stony	D		None		None		No	10-20	
Knob Lock, very stony	D		None		None		No	1-20	
Rock outcrop, very stony			None				Unranked	0	

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA		
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre	
Lyman, very stony	Dwellings with basements:	Very limited	Slope	•		
Knob Lock, very stony	Dwellings with basements:	Very limited	Slope			
Lyman, very stony	Pond reservoir areas:	Very limited	Slope			
Knob Lock, very stony	Pond reservoir areas:	Very limited	Slope			

Reason

Distribution Generation Date: 9/22/2014

Slope

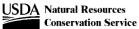
Rating

concern

Harvest equip operability: Poorly suited

Vermont natural communities

Hemlock-Northern Hardwood Forest,



## **Soil Fact Sheet - Continued**

Essex County, Vermont

Slope Knob Lock Harvest equip operability: Poorly suited Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Slope Lyman Road suitability: Poorly suited Hemlock Forest, Knob Lock Road suitability: Poorly suited Slope Red Pine Forest or Woodland Lyman Erosion hazard (off-road): Very severe Slope/erodibility Knob Lock Erosion hazard (off-road): Very severe Slope/erodibility