

LyE:

Lyman-Marlow complex, 30 to 60 percent slopes, very rocky

The Marlow, very stony component makes up 23 percent of the map unit. Slopes are 30 to 60 percent. This component is on hills on glaciated uplands, mountains on glaciated uplands. The parent material consists of loamy lodgment till derived from granite and/or loamy lodgment till derived from mica schist and/or loamy lodgment till derived from phyllite. Depth to a root restrictive layer, densic material, is 20 to 41 inches (depth from the mineral surface is 20 to 39 inches). The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Below this thin organic horizon the organic matter content is about 13 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

The Lyman, very stony component makes up 65 percent of the map unit. Slopes are 30 to 60 percent. This component is on hills on glaciated uplands, mountains on glaciated uplands. The parent material consists of loamy supraglacial till derived from granite and gneiss and/or loamy supraglacial till derived from phyllite and/or loamy supraglacial till derived from mica schist. Depth to a root restrictive layer, bedrock, lithic, is 11 to 24 inches (depth from the mineral surface is 10 to 20 inches). The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Below this thin organic horizon the organic matter content is about 8 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Important farmland classification: NPSL	Land capability: 7 s	Vermont Agricultural Value Group: 11
---	----------------------	--------------------------------------

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							EROSION FACTORS		
Soil name	Depth	Depth Typical	Clay	Clay Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS		
Con Harrie	(In)	texture	(Pct)				Kw	Kf	Т
Lyman, very stony	0-1	MPM		3.5 - 5.5	1-14	35-95			1
	1-3	L	1-10	3.5 - 6.0	0.1-14	4.0-20	.32	.32	
	3-5	FSL	1-10	3.5 - 6.0	0.1-14	1.4-5.7	.37	.37	
	5-7	L	1-10	3.5 - 6.0	0.1-14	3.1-25	.32	.32	
	7-11	L	1-10	3.5 - 6.0	0.1-14	2.2-18	.32	.32	
	11-18	CN-L	1-10	3.5 - 6.0	0.1-14	2.2-7.0	.24	.32	
	18-28	BR			0.001-14				
Marlow, very stony	0-2	SPM		3.5 - 5.5	1-14	35-95			3
	2-5	FSL	1-10	3.5 - 6.0	0.1-14	5.0-25	.28	.28	
	5-8	FSL	1-10	3.5 - 6.0	0.1-14	1.0-4.0	.37	.37	
	8-15	FSL	1-10	3.5 - 6.0	0.1-14	3.0-12	.28	.28	
	15-19	FSL	1-10	3.5 - 6.0	0.1-14	1.0-8.0	.37	.37	
	19-33	GR-FSL	1-10	3.5 - 6.0	0.1-14	0.5-2.0	.28	.43	
	33-65	FSL	1-10	3.5 - 6.0	0.01-1	0.0-1.0	.49	.49	

WATER FEATURES					SOIL FEATURES			
	Hydrologic	Depth to seasonal	Floo	ding	Pon	ding	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	11-24
Marlow, very stony	С		None		None		No	20-41

	LAND USE LIMITATION	<u>ONS</u>		AGRICULTURA	L YIELD DATA
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Marlow, very stony	Dwellings with basements: V	erv limited	Slope		

Soil Fact Sheet - Continued

Chittenden County, Vermont

Lyman, very stony Dwellings with basements: Very limited Slope
Marlow, very stony Pond reservoir areas: Very limited Slope
Lyman, very stony Pond reservoir areas: Very limited Slope

	Management		WOODLAND MANAGE	<u>EMENT</u>
Soil name	concern	Rating	Reason	Vermont natural communities
Marlow	Harvest equip operability:	Poorly suited	Slope	Hemlock-Northern Hardwood Forest,
Lyman	Harvest equip operability:	Poorly suited	Slope	Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest,
Marlow	Road suitability:	Poorly suited	Slope	Hemlock Forest,
Lyman	Road suitability:	Poorly suited	Slope	Red Pine Forest or Woodland
Marlow	Erosion hazard (off-road):	Severe	Slope/erodibility	
Lyman	Erosion hazard (off-road):	Very severe	Slope/erodibility	