

131D: Lyman-Tunbridge-Rock outcrop complex, 15 to 35 percent slopes

The Lyman, very stony component makes up 39 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 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.

The Tunbridge, very stony component makes up 31 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is low. This component is on mountains on glaciated uplands, hills 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 20 to 40 inches.

The Rock outcrop component makes up 17 percent of the map unit. Water movement in the most restrictive layer is low. This component is on hills on glaciated uplands, mountains on glaciated uplands. The parent material consists of igneous and metamorphic rock. Depth to a root restrictive layer 0 inches, bedrock, lithic,.

Important farmland classification: NPSL	Land capability: 7 s	Vermont Agricultural Value Group: 10
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIa

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 bedrock is the major limitation. On-site investigations are needed to locate areas with sufficient soil depth. A significant percentage of the soils in this unit are less than 18 inches to bedrock and are not suitable as a site. However, there may be deeper areas that are suitable. Additional fill material may be needed in some areas in order to meet the separation distance requirement between the bottom of the leachfield and bedrock.

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
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	---	---	---	
Tunbridge, very stony	0-3	MPM	---	3.5 - 5.5	1-14	35-95	---	---	2
	3-5	HPM	---	3.5 - 5.5	1-14	35-95	---	---	
	5-8	FSL	1-10	3.5 - 6.0	0.1-14	1.4-5.7	.37	.37	
	8-11	FSL	1-10	3.5 - 6.0	0.1-14	3.1-25	.32	.32	
	11-26	FSL	1-10	3.5 - 6.0	0.1-14	2.2-18	.37	.37	
	26-28	FSL	1-10	5.1 - 6.5	0.1-14	1.0-4.2	.43	.43	
	28-38	BR	---	---	0.001-14	---	---	---	
Rock outcrop	0-10	BR	---	---	0.001-14	---	---	---	---

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		
Lyman, very stony	D	---	None		None		No	11-24
Tunbridge, very stony	C	---	None		None		No	20-40
Rock outcrop	---	---	None		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	Pasture	3.1 AUM

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

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Lyman	Harvest equip operability:	Moderately suited	Slope	Hemlock-Northern Hardwood Forest, Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Hemlock Forest, Red Pine Forest or Woodland
Tunbridge	Harvest equip operability:	Moderately suited	Slope	
Lyman	Road suitability:	Poorly suited	Slope	
Tunbridge	Road suitability:	Poorly suited	Slope	
Lyman	Erosion hazard (off-road):	Moderate	Slope/erodibility	
Tunbridge	Erosion hazard (off-road):	Moderate	Slope/erodibility	