

21E: Buckland loam, 35 to 60 percent slopes, very stony

The Buckland, very stony component makes up 88 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 on glaciated uplands. The parent material consists of loamy lodgment till derived from mica schist and/or loamy lodgment till derived from limestone and/or loamy lodgment till derived from phyllite. Depth to a root restrictive layer, densic material, is 20 to 40 inches.

Important farmland classification: NPSL

Land capability: 7 s

Vermont Agricultural Value Group: 11

Vermont Residential Onsite Waste Disposal Group and Subgroup: IVd

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 slowly permeable substratum is the limiting condition. Cut and fill site modifications that reduce the slope gradient are not generally effective due to the slowly permeable substratum.

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
Buckland, very stony	0-1	SPM	---	4.5 - 6.0	1-14	35-100	---	---	3
	1-7	L	2-20	5.6 - 7.3	0.1-14	3.0-17	.32	.32	
	7-15	VFSL	0-20	5.6 - 7.3	0.1-14	0.5-2.0	.49	.49	
	15-21	VFSL	0-20	5.6 - 7.3	0.1-14	0.2-2.0	.64	.64	
	21-65	VFSL	0-20	5.6 - 7.3	0.01-1	0.0-0.3	.64	.64	

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		
Buckland, very stony	D	1.0-2.0	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Buckland, very stony	Dwellings with basements:	Very limited	Slope	Pasture	2.6 AUM

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Buckland	Harvest equip operability:	Poorly suited	Slope	Northern Hardwood Forest, Rich Northern Hardwood Forest, Sugar Maple-White Ash Northern Hardwood Forest Variant
Buckland	Road suitability:	Poorly suited	Slope	
Buckland	Erosion hazard (off-road):	Severe	Slope/erodibility	