

149E: Bomoseen and Pittstown soils, 25 to 40 percent slopes, very stony

The Bomoseen component makes up 43 percent of the map unit. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. This component is on hills on glaciated uplands, ridges on glaciated uplands. The parent material consists of coarse-loamy basal till. Depth to a root restrictive layer, densic material, is 15 to 35 inches.

The Pittstown component makes up 43 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, ridges on glaciated uplands. The parent material consists of coarse-loamy basal till. Depth to a root restrictive layer, densic material, is 15 to 30 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
Bomoseen	0-8	CN-L	4-16	5.6 - 7.3	0.6-2	2.0-6.0	.17	.28	3
	8-27	CN-FSL	4-16	5.6 - 7.3	0.6-2	0.1-2.0	.20	.32	
	27-60	CN-SIL	4-16	6.1 - 8.4	0-0.06	0.0-0.5	.37	.64	
Pittstown	0-7	SIL	2-12	4.5 - 6.0	0.6-2	2.0-6.0	.43	.43	3
	7-22	SIL	2-12	4.5 - 6.0	0.6-2	0.5-3.0	.55	.55	
	22-60	GR-SIL	2-12	4.5 - 6.0	0.06-0.2	0.0-1.0	.28	.64	

WATER FEATURES						SOIL FEATURES	
Soil name	Hydrologic group	Depth to seasonal high water table (Feet)	Flooding		Ponding		Hydric soil?
			Frequency	Duration	Frequency	Duration	
Bomoseen	C/D	1.5-3.0	None		None		No
Pittstown	C	1.5-3.0	None		None		No

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Bomoseen	Dwellings with basements:	Very limited	Slope	Pasture	3 AUM
Pittstown	Dwellings with basements:	Very limited	Slope		
Bomoseen	Pond reservoir areas:	Very limited	Slope		
Pittstown	Pond reservoir areas:	Very limited	Slope		

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