

148D: Bomoseen and Pittstown soils, 15 to 25 percent slopes

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: 4 e

Vermont Agricultural Value Group: 8

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIe

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 the seasonal high water table and slopes greater than 20 percent in some areas are the major limitations. A detailed, site-specific analysis is generally required. On-site groundwater level monitoring and determination of induced groundwater mounding is often necessary to establish the suitability of this unit. Curtain drains may help lower the water table to an acceptable level. There may be less-sloping areas within the unit that are suitable for siting a septic system, or, if feasible, cut and fill site modifications may produce an acceptable area within the unit. An erosion prevention and sediment control plan is required by the State for construction on sites over 20 percent slope.

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	0.06-0.6	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?	Depth to bedrock (range in inches)
			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	Grass-legume hay	3 Tons
Pittstown	Dwellings with basements:	Very limited	Slope	Grass-clover	5.5 AUM
Bomoseen	Pond reservoir areas:	Very limited	Slope	Corn silage	16 Tons
Pittstown	Pond reservoir areas:	Very limited	Slope	Alfalfa hay	3.5 Tons
				Grass hay	3.3 Tons
				Grass-clover	5.2 AUM
				Grass-legume hay	3.3 Tons
				Alfalfa hay	3.8 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Bomoseen	Harvest equip operability:	Moderately suited	30-60cm to water table : >=6mos	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):	Moderate	Slope/erodibility