

**VeB: Vergennes clay, 2 to 6 percent slopes**

The Vergennes component makes up 85 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 terraces on glacial lake plains. The parent material consists of clayey glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: Statewide	Land capability: 2 e	Vermont Agricultural Value Group: 6
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIc

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 in association with the minimal slope is the major limitation. 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, however, the minimal slope may prevent their use in many areas.

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
Vergennes	0-6	C	27-90	4.5 - 7.3	0.06-0.6	2.0-6.0	.49	.49	2
	6-14	C	60-90	4.5 - 7.3	0-0.2	0.5-2.0	.49	.49	
	14-25	C	60-90	5.6 - 8.4	0-0.2	0.5-2.0	.49	.49	
	25-65	C	60-90	7.9 - 8.4	0-0.06	0.0-0.5	.49	.49	

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		
Vergennes	D	1.0-3.0	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Vergennes	Dwellings with basements:	Very limited	Depth to saturated zone	Grass-legume hay	3.5 Tons
Vergennes	Pond reservoir areas:	Somewhat limited	Slope	Alfalfa hay	4.5 Tons
				Corn silage	15 Tons
				Grass-clover	5.6 AUM
				Grass hay	4.5 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Vergennes	Harvest equip operability:	Moderately suited	Stickiness; high plasticity index	Valley Clayplain Forest
Vergennes	Road suitability:	Moderately suited	Stickiness; high plasticity	
Vergennes	Erosion hazard (off-road):	Slight		