

VeD: Vergennes clay, 12 to 25 percent slopes

The Vergennes component makes up 90 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: NPSL	Land capability: 4 e	Vermont Agricultural Value Group: 8
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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
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	Alfalfa hay	3.5 Tons
Vergennes	Pond reservoir areas:	Very limited	Slope	Grass-legume hay	3 Tons
				Grass-clover	6.5 AUM
				Grass hay	3.5 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:	Poorly suited	Slope	
Vergennes	Erosion hazard (off-road):	Moderate	Slope/erodibility	