

82E: Vergennes clay, 25 to 50 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 hills 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: 7 e	Vermont Agricultural Value Group: 11
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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
Vergennes	0-6	C	27-90	4.5 - 7.3	0.06-0.6	2.0-6.0	.49	.49	2
	6-11	C	60-90	4.5 - 7.3	0-0.2	0.5-2.0	.49	.49	
	11-18	C	60-90	5.6 - 8.4	0-0.2	0.5-2.0	.49	.49	
	18-60	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	Slope		
Vergennes	Pond reservoir areas:	Very limited	Slope		

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Vergennes	Harvest equip operability:	Poorly suited	Slope	Valley Clayplain Forest
Vergennes	Road suitability:	Poorly suited	Slope	
Vergennes	Erosion hazard (off-road):	Severe	Slope/erodibility	