

MsE: Missisquoi loamy sand, 25 to 60 percent slopes

The Missisquoi component makes up 76 percent of the map unit. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. This component is on terraces on river valleys. The parent material consists of sandy glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: NPSL	Land capability: 7 s	Vermont Agricultural Value Group: 11
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIe

This unit is moderately 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 rapid permeability in the substratum and slopes greater than 20 percent are the primary concerns. Backfilling absorption trenches and beds with at least one foot of finer textured material, or other site modifications, may be necessary to slow the percolation rate enough to allow for thorough filtering of effluent. 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
Missisquoi	0-5	LS	2-5	5.1 - 6.5	6-20	2.0-5.0	.15	.15	5
	5-12	LS	2-5	5.1 - 6.5	6-20	0.5-2.0	.17	.17	
	12-35	GR-COS	0-5	5.1 - 6.5	6-20	0.0-0.5	.02	.02	
	35-60	GR-COS	0-5	6.1 - 7.8	6-20	0.0-0.5	.02	.02	

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		
Missisquoi	A	---	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Missisquoi	Dwellings with basements:	Very limited	Slope		
Missisquoi	Pond reservoir areas:	Very limited	Seepage		

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Missisquoi	Harvest equip operability:	Poorly suited	Slope	Hemlock-Northern Hardwood Forest, Hemlock-White Pine-Northern Hardwood Forest Variant
Missisquoi	Road suitability:	Poorly suited	Slope	
Missisquoi	Erosion hazard (off-road):	Severe	Slope/erodibility	