

PaE: Palatine silt loam, 25 to 60 percent slopes

The Palatine component makes up 85 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. This component is on hills on glaciated uplands. The parent material consists of coarse-loamy till. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 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: IVb

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 depth to bedrock is the limiting condition. Cut and fill site modifications that reduce the slope gradient are difficult to achieve due to the depth to bedrock.

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
Palatine	0-5	SIL	5-18	6.1 - 7.8	0.6-2	4.0-8.0	.32	.32	3
	5-17	CN-SIL	5-18	6.1 - 7.8	0.6-2	0.0-1.0	.24	.49	
	17-25	CNV-SIL	5-18	7.4 - 8.4	0.6-2	0.0-1.0	.20	.64	
	25-35	UWB	---	---	0-0.6	---	---	---	

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		
Palatine	C	---	None		None		No	20-40

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

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Palatine	Harvest equip operability:	Poorly suited	Slope	Mesic Maple-Ash-Hickory-Oak Forest, Northern Hardwood Limestone Forest Variant, Transition Hardwoods Limestone Forest Variant, Rich Northern Hardwood Forest, Sugar Maple-White Ash Northern Hardwood Forest Variant
Palatine	Road suitability:	Poorly suited	Slope	
Palatine	Erosion hazard (off-road):	Severe	Slope/erodibility	