

39: Winooski silt loam, 0 to 3 percent slopes, occasionally flooded

The Winooski 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 moderately high. This component is on flood plains on river valleys. The parent material consists of silty alluvium. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: Prime	Land capability: 2 w	Vermont Agricultural Value Group: 1
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIb

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 hazard of flooding and the depth to the seasonal high water table are the major limitations. This unit is on floodplains and typically includes land in the floodway and the special flood hazard area. Consult flood hazard maps prepared by the Federal Emergency Management Agency (FEMA) in local town offices for more information. Wastewater systems must be located, designed and constructed in a manner that avoids impairment to the system and contamination from the system due to flooding. A detailed, site-specific analysis with groundwater level monitoring and determination of induced groundwater mounding may be required to establish the suitability of this unit. Mound system construction and other site modifications are often necessary.

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
Winooski	0-12	SIL	5-18	5.1 - 7.3	0.6-6	2.0-5.0	.43	.43	5
	12-65	SIL	2-10	5.1 - 7.3	0.6-6	0.0-2.0	.64	.64	

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		
Winooski	C	1.5-3.0	Occasional	Brief (2 to 7 days)	None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Winooski	Dwellings with basements:	Very limited	Flooding	Pasture	8 AUM
Winooski	Pond reservoir areas:	Somewhat limited	Seepage	Grass hay	4.5 Tons
				Grass-legume hay	4 Tons
				Grass-clover	7.5 AUM
				Corn silage	26 Tons
				Alfalfa hay	4.5 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Winooski	Harvest equip operability:	Moderately suited	Low strength	Silver Maple-Sensitive Fern Riverine Floodplain Forest, River Mud Shore, Successional Floodplain Forest Variant
Winooski	Road suitability:	Moderately suited	Flooding	
Winooski	Erosion hazard (off-road):	Slight		