

**MaA: Melrose fine sandy loam, 0 to 3 percent slopes**

The Melrose 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 terraces on lake plains. The parent material consists of coarse-loamy glaciolacustrine deposits over clayey glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches.

**Important farmland classification:** Prime

**Land capability:** 1

**Vermont Agricultural Value Group:** 1

**Vermont Residential Onsite Waste Disposal Group and Subgroup: IIa**

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 slow permeability in the substratum is the primary concern. Mound system construction and other site modifications may be 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
Melrose	0-7	FSL	5-10	5.1 - 6.0	2-6	3.0-7.0	.20	.20	4
	7-23	FSL	5-10	5.1 - 6.0	2-6	0.5-3.0	.37	.37	
	23-65	SICL	30-55	5.1 - 7.3	0-0.2	0.0-0.5	.37	.37	

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		
Melrose	C	---	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Melrose	Dwellings with basements:	Somewhat limited	Shrink-swell	Grass hay	4 Tons
Melrose	Pond reservoir areas:	Very limited	Seepage	Corn silage	24 Tons
				Grass-legume hay	4 Tons
				Pasture	7.6 AUM
				Alfalfa hay	4.5 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Melrose	Harvest equip operability:	Well suited		Valley Clayplain Forest, Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest
Melrose	Road suitability:	Well suited		
Melrose	Erosion hazard (off-road):	Slight		