

MnA: Massena extremely stony loam, 0 to 6 percent slopes

The Massena component makes up 80 percent of the map unit. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. This component is on drainageways on glaciated uplands, depressions on glaciated uplands. The parent material consists of coarse-loamy till. 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: IIIc

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 depth to the seasonal high water table in association with the minimal slope is the major limitation. A detailed, site-specific analysis is generally required. On-site groundwater level monitoring and determination of induced groundwater mounding is often necessary to establish the suitability of this unit. Curtain drains may help lower the water table to an acceptable level, however, the minimal slope may prevent their use in many areas.

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
Massena	0-8	L	8-22	5.6 - 7.3	0.6-2	3.0-8.0	.28	.28	3
	8-25	SIL	7-18	5.6 - 7.3	0.06-0.6	0.0-1.0	.55	.55	
	25-44	GR-L	7-18	6.6 - 8.4	0.06-0.6	0.0	.28	.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		
Massena	C/D	1.0-1.5	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Massena	Dwellings with basements:	Very limited	Depth to saturated zone		
Massena	Pond reservoir areas:	Somewhat limited	Slope		

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Massena	Harvest equip operability:	Moderately suited	30-60cm to water table >=6mos	Red Maple-Black Ash Swamp, Calcareous Red Maple-Tamarack Swamp
Massena	Road suitability:	Moderately suited	Rock fragments	
Massena	Erosion hazard (off-road):	Slight		