

SIE63: Monadnock-Sunapee complex, 15 to 35 percent slopes, very stony

The Monadnock, very stony component makes up 64 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. This component is on moraines. The parent material consists of sandy and gravelly ablation till. Depth to a root restrictive layer is greater than 60 inches.

The Sunapee, very stony component makes up 19 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 moraines. The parent material consists of loamy ablation till. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: NPSL	Land capability: 6 s	Vermont Agricultural Value Group: 10
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIe

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 and slopes greater than 20 percent in some areas are the major limitations. 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. There may be less-sloping areas within the unit that are suitable for siting a septic system, or, if feasible, 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								EDOCION EACTORS	
Soil name	Depth	Typical	Typical Clay reaction (In/Hr)		Permeability	Organic matter	EROSION FACTORS		
Soli Hame	(ln)	texture		(117/111)	(Pct)	Kw	Kf	Т	
Monadnock, very stony	0-1	MPM		3.5 - 5.5	2-6	35-100			4
	1-5	FSL	1-15	3.5 - 6.0	0.6-2	2.0-13	.28	.28	
	5-22	FSL	1-15	3.5 - 6.0	0.6-2	0.5-5.5	.37	.37	
	22-65	GRV-LCOS	1-5	3.5 - 6.0	2-6	0.0-1.5	.05	.15	
Sunapee, very stony	0-2	MPM		3.5 - 5.5	2-6	35-100			5
	2-6	FSL	2-12	3.5 - 5.5	0.6-2	2.0-13	.24	.24	
	6-38	FSL	1-12	3.5 - 5.5	0.6-2	0.2-4.5	.37	.37	
	38-65	GR-LFS	0-10	3.5 - 6.0	0.6-6	0.0-1.5	.24	.37	

	WATER FEATURES						SOIL	SOIL FEATURES		
	Hydrologic	Depth to seasonal	Floo	ding	Pon	ding	Hydric			
Soil name	group	high water table (Feet)	Frequency	Duration	Frequency	Duration	soil?	Depth to bedrock (range in inches)		
Monadnock, very stony	В		None		None		No			
Sunapee, very stony	B/D	1.5-3.0	None		None		No			

LAND USE LIMITATIONS				AGRICULTURAL YIE	LD DATA
oil name	Land use	Rating	Reason **	Crop name	Yield / acr
napee, very stony	Dwellings with basements:	Very limited	Slope	Grass-legume hay	3 Tons
onadnock, very	Dwellings with basements:	Very limited	Slope	Grass-clover	4.7 AUN
tony	go zacooe.	tory miniou		Grass hay	2.5 Ton
unapee, very stony	Pond reservoir areas:	Very limited	Slope	Corn silage	14 Tons
onadnock, very	Pond reservoir areas:	Very limited	Seepage	Alfalfa hay	3.5 Ton
tony	Total reservoir areas.	vory miniod	Coopago	Pasture	2.8 AUN

	Management	WOODLAND MANAGEMENT				
Soil name	concern	Rating	Reason	Vermont natural communities		
Sunapee	Harvest equip operability:	Moderately suited		Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Beech-Red Maple-Hemlock-Northern Hardwood Forest Variant, Hemlock Forest		

Soil Fact Sheet - Continued

Essex County, Vermont

Monadnock Harvest equip operability: Moderately suited 0.1 to 3% surface cover

fragments >=600mm (m

bouldery)

Sunapee Road suitability: Poorly suited Slope
Monadnock Road suitability: Poorly suited Slope

Sunapee Erosion hazard (off-road): Moderate Slope/erodibility

Monadnock Erosion hazard (off-road): Moderate Slope/erodibility