

Monadnock

Monadnock

Road suitability:

Erosion hazard (off-road): Very severe

## SIE64: Monadnock fine sandy loam, 35 to 60 percent slopes, very stony

The Monadnock, very stony component makes up 78 percent of the map unit. Slopes are 35 to 60 percent. This component is on hills on glaciated uplands, mountains on glaciated uplands. The parent material consists of loamy supraglacial meltout till derived from phyllite and/or granite and gneiss and/or mica schist over sandy and gravelly supraglacial meltout till derived from phyllite and/or granite and gneiss and/or mica schist. Depth to a root restrictive layer, strongly contrasting textural stratification, is 18 to 36 inches (depth from the mineral surface is 17 to 31 inches). The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Below this thin organic horizon the organic matter content is about 2 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

Important farmland classification: NPSL	Land capability: 7 s	Vermont Agricultural Value Group: 11
---	----------------------	--------------------------------------

## Vermont Residential Onsite Waste Disposal Group and Subgroup: Ilf

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 rapid permeability in the substratum and slopes greater than 20 percent are the primary concerns. Backfilling absorption trenches and beds with at least one foot of finer textured material, or other site modifications, may be necessary to slow the percolation rate enough to allow for thorough filtering of effluent. 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								EROSION FACTORS		
Soil name	Depth	Typical	Clay	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	<u>EROSION FACTORS</u>			
	(ln)	texture	(Pct)				Kw	Kf	Т	
Monadnock, very stony	0-3	MPM		3.5 - 5.5	1-14	35-95			3	
	3-8	FSL	1-10	3.5 - 6.0	0.1-14	1.0-4.0	.37	.37		
	8-10	FSL	1-10	3.5 - 6.0	0.1-14	2.0-20	.32	.32		
	10-12	FSL	1-10	3.5 - 6.0	0.1-14	2.0-10	.32	.32		
	12-22	GR-FSL	1-10	3.5 - 6.0	0.1-14	1.0-6.0	.24	.43		
	22-25	GR-FSL	1-10	3.5 - 6.0	0.1-14	0.0-2.0	.24	.43		
	25-45	GR-LS	0-1	3.5 - 6.0	1-100	0.0-1.0	.17	.32		
	45-65	GR-LS	0-1	3.5 - 6.0	1-100	0.0-1.0	.17	.32		

WATER FEATURES							SOIL FEATURES		
Soil name	Hydrologic group	Depth to seasonal high water table (Feet)	Flooding		Ponding		Hydric	_	
			Frequency	Duration	Frequency	Duration	soil?	Depth to bedrock (range in inches)	
Monadnock, very stony	В		None		None		No		

Monadnock, very s	Monadnock, very stony B		None		9	No		
	LAND USE LIMITA			L YIELD DATA				
Soil name	Land use	Rating	Reason **		Crop name	Yield / acre		
Monadnock, very stony	Dwellings with basements:	Very limited	Slope					
Monadnock, very stony	Pond reservoir areas:	Very limited	Slope					
	Management WOODLAND MANAGEMENT							
Soil name	concern	Rating	Reason		Vermont natural	communities		
Monadnock	Harvest equip operability:	Poorly suited	Slope	١	Northern Hardwood Fo	rest,		

Slope

Slope/erodibility

Poorly suited

Mesic Red Oak-Northern Hardwood Forest,

Forest Variant, Hemlock Forest

Beech-Red Maple-Hemlock-Northern Hardwood