

74D: Monadnock fine sandy loam, 15 to 25 percent slopes

The Monadnock component makes up 80 percent of the map unit. Slopes are 15 to 25 percent. This component is on mountains on glaciated uplands, hills 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 15 to 30 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 6 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Important farmland classification: NPSL

Land capability: 4 e

Vermont Agricultural Value Group: 8

Vermont Residential Onsite Waste Disposal Group and Subgroup: Id

This unit is well 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. Slopes greater than 20 percent in some areas are a concern. 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							EROSION FACTORS		
Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	Kw	Kf	T
Monadnock	0-7	FSL	1-10	3.5 - 7.0	0.1-14	2.0-10	.32	.32	3
	7-9	FSL	1-10	3.5 - 6.0	0.1-14	2.0-10	.32	.32	
	9-19	GR-FSL	1-10	3.5 - 6.0	0.1-14	1.0-6.0	.24	.43	
	19-22	GR-FSL	1-10	3.5 - 6.0	0.1-14	0.0-2.0	.24	.43	
	22-42	GR-LS	0-1	3.5 - 6.0	1-100	0.0-1.0	.17	.32	
	42-65	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 soil?	Depth to bedrock (range in inches)
			Frequency	Duration	Frequency	Duration		
Monadnock	B	---	None		None		No	

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Monadnock	Dwellings with basements:	Very limited	Slope	Corn silage	14 Tons
Monadnock	Pond reservoir areas:	Very limited	Slope	Grass-clover	4.7 AUM
				Grass-legume hay	3 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Monadnock	Harvest equip operability:	Moderately suited	Slope	Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Beech-Red Maple-Hemlock-Northern Hardwood Forest Variant, Hemlock Forest
Monadnock	Road suitability:	Poorly suited	Slope	
Monadnock	Erosion hazard (off-road):	Moderate	Slope/erodibility	