

63E: Monadnock and Berkshire soils, 35 to 60 percent slopes, very stony

The Berkshire, very stony component makes up 40 percent of the map unit. Slopes are 35 to 60 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. Depth to a root restrictive layer is greater than 60 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 high. 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 11 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

The Monadnock, very stony component makes up 45 percent of the map unit. Slopes are 35 to 60 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 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
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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. Slopes greater than 20 percent are the primary concern. 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	CHEMICA	L PROPERT	<u>IES</u>		EDO0	ION FA	CTORC
Soil name	Depth	Typical	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	ERUS	ION FA	CTORS
	(In)	texture					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	
Berkshire, very stony	0-2	SPM		3.5 - 5.5	1-14	35-95			5
	2-4	FSL	1-10	3.5 - 6.0	0.1-14	5.0-15	.32	.32	
	4-5	FSL	1-10	3.5 - 6.0	0.1-14	1.0-5.0	.37	.37	
	5-7	FSL	1-10	3.5 - 6.0	0.1-14	2.0-20	.32	.32	
	7-13	FSL	1-10	3.5 - 6.0	0.1-14	2.0-10	.32	.32	
	13-21	FSL	1-10	3.5 - 6.0	0.1-14	1.0-6.0	.43	.43	
	21-28	FSL	1-10	3.5 - 6.0	0.1-14	0.0-3.0	.49	.49	
	28-33	FSL	1-10	3.5 - 6.0	0.1-14	0.0-2.0	.49	.49	
	33-65	FSL	1-10	3.5 - 6.0	0.1-14	0.0-1.0	.55	.55	

		WATE	R FEATURES				<u>SOII</u>	<u>FEATURES</u>
	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	
Berkshire, very stony	В		None		None		No	

Soil Fact Sheet - Continued

Windsor County, Vermont

	LAND USE LIMITA	TIONS		AGRICULTURAL YIELD DATA			
Soil name	Land use	Rating	Reason **	Crop name Yield / acre)		
Berkshire, very stony	Dwellings with basements:	Very limited	Slope	•			
Monadnock, very stony	Dwellings with basements:	Very limited	Slope				
Berkshire, very stony	Pond reservoir areas:	Very limited	Slope				
Monadnock, very	Pond reservoir areas:	Very limited	Slope				
stony							
stony	Management		WOODLAND MANAGE	MENT			
·	Management concern	Rating	WOODLAND MANAGE!	MENT Vermont natural communities			
Soil name	· ·						
Soil name Berkshire	concern	Rating	Reason	Vermont natural communities Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Fore			
Soil name Berkshire Monadnock	concern Harvest equip operability:	Rating Poorly suited	Reason Slope	Vermont natural communities Northern Hardwood Forest,	,		
Soil name Berkshire Monadnock Berkshire Monadnock	concern Harvest equip operability: Harvest equip operability:	Rating Poorly suited Poorly suited	Reason Slope Slope	Vermont natural communities Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Fore Beech-Red Maple-Hemlock-Northern Ha	,		
Soil name Berkshire Monadnock Berkshire	concern Harvest equip operability: Harvest equip operability: Road suitability: Road suitability:	Rating Poorly suited Poorly suited Poorly suited	Reason Slope Slope Slope	Vermont natural communities Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Fore Beech-Red Maple-Hemlock-Northern Hardwood Forest Variant,	,		