

124C: Sunapee fine sandy loam, 8 to 15 percent slopes, very stony

The Sunapee, very stony component makes up 85 percent of the map unit. Slopes are 8 to 15 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 moderately 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. A seasonal zone of water saturation is at 27 inches (depth from the mineral surface is 25 inches) during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 85 percent. Below this thin organic horizon the organic matter content is about 10 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Important farmland classification: NPSL

Land capability: 6 s

Vermont Agricultural Value Group: 10

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIh

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 depth to the seasonal high water table is the primary concern. Mound system construction and other site modifications are often necessary. On sloping sites, curtain drains can help lower the water table to an acceptable level. In some cases, a detailed, site-specific analysis with groundwater level monitoring and determination of induced groundwater mounding may be required to establish the suitability of this unit.

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
Sunapee, very stony	0-2	MPM	---	3.5 - 5.0	1-14	35-95	---	---	5
	2-3	FSL	0-10	3.5 - 5.5	0.1-14	5.0-15	.32	.32	
	3-5	GR-FSL	0-10	3.5 - 5.5	0.1-14	1.0-5.0	.24	.37	
	5-6	GR-FSL	0-10	3.5 - 5.5	0.1-14	2.0-20	.20	.32	
	6-8	GR-FSL	0-10	3.5 - 5.5	0.1-14	2.0-10	.20	.32	
	8-17	GR-FSL	0-10	3.5 - 5.5	0.1-14	2.0-6.0	.20	.32	
	17-26	GR-FSL	0-10	3.5 - 5.5	0.1-14	1.0-3.0	.24	.43	
	26-38	GR-SL	0-10	3.5 - 6.0	0.1-100	0.0-2.0	.15	.28	
	38-65	GR-SL	0-10	3.5 - 6.0	0.1-100	0.0-1.0	.15	.28	

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		
Sunapee, very stony	C	1.5-3.0	None		None		No	---

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

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Sunapee	Harvest equip operability:	Well suited		Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest, Hemlock Forest
Sunapee	Road suitability:	Moderately suited	Slope	
Sunapee	Erosion hazard (off-road):	Slight		