

AgD: Agawam fine sandy loam, 15 to 25 percent slopes

The Agawam component makes up 85 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 outwash terraces on valleys. The parent material consists of coarse-loamy eolian deposits over sandy and gravelly glaciofluvial deposits derived from gneiss, granite, schist, and/or phyllite. Depth to a root restrictive layer, strongly contrasting textural stratification, is 15 to 35 inches.

Important farmland classification: NPSL

Land capability: 4 e

Vermont Agricultural Value Group: 8

Vermont Residential Onsite Waste Disposal Group and Subgroup: Ib

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. The rapid permeability in the substratum and slopes greater than 20 percent in some areas are concerns. Backfilling absorption trenches 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. 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
Agawam	0-11	FSL	1-9	4.4 - 6.6	0.1-14	0.4-12	.37	.37	3
	11-16	FSL	1-9	4.4 - 6.6	0.1-14	0.1-2.6	.43	.43	
	16-26	FSL	1-6	4.4 - 6.6	1-100	0.1-2.6	.37	.37	
	26-45	LFS	0-5	4.4 - 6.6	1-100	0.0-0.7	.49	.49	
	45-55	LFS	0-5	4.4 - 6.6	1-100	0.0-0.7	.49	.49	
	55-65	LS	0-5	4.4 - 6.6	1-100	0.0-0.7	.28	.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		
Agawam	B	---	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Agawam	Dwellings with basements:	Very limited	Slope	Grass-clover	8.5 AUM
				Corn silage	24 Tons
				Alfalfa hay	5 Tons
				Tobacco	1500 Lbs
				Irish potatoes	270 Cwt
				Grass-legume hay	4.5 Tons
				Sweet corn	6.3 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Agawam	Harvest equip operability:	Moderately suited	Slope	White Pine-Red Oak-Black Oak Forest, White Pine-Northern Hardwood Forest Variant, Sugar Maple-Ostrich Fern Riverine Floodplain Forest
Agawam	Road suitability:	Poorly suited	Slope	
Agawam	Erosion hazard (off-road):	Moderate	Slope/erodibility	