

37C: Stetson loam, 8 to 15 percent slopes

The Stetson component makes up 90 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 terraces on river valleys. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: Statewide	Land capability: 3 e	Vermont Agricultural Value Group: 7
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Vermont Residential Onsite Waste Disposal Group and Subgroup: Ia

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 is a concern. 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.

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
Stetson	0-8	L	5-10	5.6 - 6.5	0.6-6	2.0-6.0	.28	.28	3
	8-20	GR-FSL	2-8	5.6 - 6.5	0.6-6	1.0-4.0	.17	.37	
	20-25	GRV-LS	0-3	5.6 - 6.5	0.6-6	0.5-2.0	.10	.28	
	25-65	GRV-S	0-2	5.6 - 6.5	6-20	0.0-0.5	.02	.02	

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		
Stetson	A	---	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Stetson	Dwellings with basements:	Somewhat limited	Slope	Pasture	5.7 AUM
Stetson	Pond reservoir areas:	Very limited	Seepage	Alfalfa hay	4 Tons
				Corn silage	14 Tons
				Grass hay	3 Tons
				Grass-legume hay	3 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Stetson	Harvest equip operability:	Well suited		Hemlock-Northern Hardwood Forest, Hemlock-White Pine-Northern Hardwood Forest Variant, Lowland Spruce-Fir Forest, well drained phase, Hemlock Forest
Stetson	Road suitability:	Moderately suited	Slope	
Stetson	Erosion hazard (off-road):	Slight		