

38D: Colton-Duxbury complex, 15 to 25 percent slopes

The Colton component makes up 45 percent of the map unit. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. This component is on outwash terraces. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

The Duxbury component makes up 35 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is high. This component is on outwash terraces. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: NPSL

Land capability: 6 e

Vermont Agricultural Value Group: 10

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
Colton	0-1	SPM	---	3.5 - 5.5	2-6	35-100	---	---	5
	1-9	FSL	0-7	3.5 - 6.0	2-100	1.0-5.0	.24	.24	
	9-13	GRV-LS	0-7	3.5 - 6.0	2-100	1.0-4.6	.10	.24	
	13-22	GR-COS	0-5	3.5 - 6.0	2-100	0.5-3.0	.02	.02	
	22-65	GRV-COS	0-3	4.5 - 6.5	20-100	0.0-0.5	.02	.02	
Duxbury	0-2	MPM	---	3.5 - 5.5	2-6	35-100	---	---	3
	2-16	FSL	0-7	3.5 - 6.5	2-6	1.0-5.0	.32	.32	
	16-28	GR-LFS	0-7	3.5 - 6.5	2-6	0.5-2.5	.20	.37	
	28-65	GRV-S	0-5	4.5 - 6.5	6-100	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		
Colton	A	---	None		None		No	---
Duxbury	A	---	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Colton	Dwellings with basements:	Very limited	Slope	Pasture	8 AUM
Duxbury	Dwellings with basements:	Very limited	Slope	Grass-legume hay	3 Tons
Colton	Pond reservoir areas:	Very limited	Seepage	Corn silage	14 Tons
Duxbury	Pond reservoir areas:	Very limited	Seepage	Pasture	8 AUM
				Grass-legume hay	3 Tons
				Corn silage	14 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Colton	Harvest equip operability:	Moderately suited	Slope	Hemlock-Northern Hardwood Forest, Hemlock-White Pine-Northern Hardwood Forest Variant, Lowland Spruce-Fir Forest, well drained phase, White Pine-Northern Hardwood Forest Variant,
Duxbury	Harvest equip operability:	Moderately suited	Slope	
Colton	Road suitability:	Poorly suited	Slope	

Duxbury	Road suitability:	Poorly suited	Slope	Hemlock Forest,
Colton	Erosion hazard (off-road):	Moderate	Slope/erodibility	Red Pine Forest or Woodland
Duxbury	Erosion hazard (off-road):	Moderate	Slope/erodibility	