

705D: Rawsonville-Houghtonville-Mundal complex, 8 to 50 percent slopes, rocky

The Rawsonville, rocky component makes up 45 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is low. This component is on strongly sloping to steep hills on glaciated uplands, mountains on glaciated uplands. The parent material consists of loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Houghtonville, rocky component makes up 20 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 strongly sloping to steep hills on glaciated uplands, mountains on glaciated uplands. The parent material consists of loamy till. Depth to a root restrictive layer is greater than 60 inches.

The Mundal, rocky component makes up 20 percent of the map unit. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. This component is on strongly sloping to steep hills on glaciated uplands, mountains on glaciated uplands. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 20 to 30 inches.

<u>Important farmland classification:</u> NPSL	<u>Land capability:</u> 6 s	<u>Vermont Agricultural Value Group:</u> 11
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIf

This unit is marginally 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 and the restricted depth to bedrock in some areas are the major limitations. On-site investigations can help avoid areas with limited depth to bedrock. Additional fill material may be needed in some areas in order to meet the separation distance requirement between the bottom of the leachfield and bedrock. 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. 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.

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
Rawsonville, rocky	0-2	SPM	---	3.2 - 5.7	2-6	25-100	---	---	2
	2-6	FSL	3-10	3.6 - 5.5	0.6-6	2.0-8.0	.24	.24	
	6-24	FSL	3-10	3.6 - 5.5	0.6-6	2.0-8.0	.37	.37	
	24-34	UWB	---	---	0.01-20	---	---	---	
Houghtonville, rocky	0-2	SPM	---	3.2 - 5.7	2-6	25-100	---	---	5
	2-6	FSL	3-10	3.6 - 6.0	0.6-6	4.0-8.0	.20	.20	
	6-29	CB-FSL	3-10	3.6 - 6.0	0.6-6	2.0-6.0	.17	.28	
	29-65	CB-FSL	3-10	3.6 - 6.0	0.6-6	0.5-2.0	.17	.32	
Mundal, rocky	0-7	HPM	---	3.2 - 5.7	2-6	25-100	---	---	3
	7-8	FSL	3-10	3.6 - 6.0	0.6-2	4.0-8.0	.24	.24	
	8-28	FSL	3-10	3.6 - 6.0	0.6-2	2.0-6.0	.28	.28	
	28-65	FSL	3-10	5.1 - 6.5	0.06-0.6	0.5-2.0	.43	.43	

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		
Rawsonville, rocky	C	---	None		None		No	20-40
Houghtonville, rocky	B	---	None		None		No	---
Mundal, rocky	C	1.5-2.5	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Mundal, rocky	Dwellings with basements:	Very limited	Depth to saturated zone	Pasture	2.7 AUM
Rawsonville, rocky	Dwellings with basements:	Very limited	Depth to hard bedrock	Pasture	3.6 AUM

Soil Fact Sheet - Continued

Windsor County, Vermont

Houghtonville, rocky	Dwellings with basements:	Very limited	Slope	Pasture	3.1 AUM
Mundal, rocky	Pond reservoir areas:	Very limited	Slope		
Rawsonville, rocky	Pond reservoir areas:	Very limited	Slope		
Houghtonville, rocky	Pond reservoir areas:	Very limited	Slope		

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Mundal	Harvest equip operability:	Moderately suited	Slope	Montane Yellow Birch-Red Spruce Forest, Red Spruce-Northern Hardwood Forest, Northern Hardwood Forest
Rawsonville	Harvest equip operability:	Moderately suited	Slope	
Houghtonville	Harvest equip operability:	Moderately suited	Slope	
Mundal	Road suitability:	Poorly suited	Slope	
Rawsonville	Road suitability:	Poorly suited	Slope	
Houghtonville	Road suitability:	Poorly suited	Slope	
Mundal	Erosion hazard (off-road):	Moderate	Slope/erodibility	
Rawsonville	Erosion hazard (off-road):	Moderate	Slope/erodibility	
Houghtonville	Erosion hazard (off-road):	Moderate	Slope/erodibility	