

**SIE41N: Tunbridge-Peru-Wilmington complex, 3 to 8 percent slopes, rocky**

The Tunbridge, rocky component makes up 26 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 hills, mountains. The parent material consists of loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Dixfield, rocky component makes up 24 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 hills, mountains. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 20 to 36 inches.

The Wilmington, rocky component makes up 20 percent of the map unit. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. This component is on hills, mountains. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 10 to 20 inches.

<b>Important farmland classification:</b> Prime	<b>Land capability:</b> 2 e	<b>Vermont Agricultural Value Group:</b> 3
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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
Tunbridge, rocky	0-8	FSL	2-15	3.5 - 6.0	0.6-6	2.0-10	.28	.28	2
	8-25	FSL	1-12	3.5 - 6.0	0.6-6	1.0-10	.37	.37	
	25-35	UWB	---	---	0.01-20	---	---	---	
Peru, rocky	0-8	SL	1-15	3.5 - 6.5	0.6-2	2.0-10	.24	.24	3
	8-13	SL	1-15	3.5 - 6.5	0.6-2	1.0-9.0	.28	.28	
	13-27	SL	1-15	3.5 - 6.5	0.6-2	0.5-4.5	.37	.37	
	27-65	SL	1-15	4.5 - 6.5	0.06-0.6	0.0-0.3	.43	.43	
Wilmington, rocky	0-8	SL	1-15	3.5 - 6.0	0.6-2	2.0-10	.32	.32	2
	8-17	FSL	1-15	3.5 - 6.0	0.6-2	1.0-6.0	.32	.32	
	17-65	GR-FSL	1-15	5.1 - 6.5	0.06-0.6	0.0-0.3	.28	.49	

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		
Tunbridge, rocky	C	---	None		None		No	20-40
Peru, rocky	C	1.5-2.5	None		None		No	---
Wilmington, rocky	D	0.0-1.5	None		None		Yes	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Peru, rocky	Dwellings with basements:	Very limited	Depth to saturated zone	Grass-legume hay	3.5 Tons
Wilmington, rocky	Dwellings with basements:	Very limited	Depth to saturated zone	Grass-clover	5.6 AUM
Tunbridge, rocky	Dwellings with basements:	Very limited	Depth to hard bedrock	Grass hay	3.5 Tons
				Corn silage	20 Tons
				Alfalfa hay	4 Tons
				Pasture	8 AUM

## Soil Fact Sheet - Continued

Essex County, Vermont

Grass-legume hay	4 Tons
Grass hay	4 Tons
Blueberries	2000 Lbs
Pasture	3 AUM

### WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Peru	Harvest equip operability:	Well suited		Northern Hardwood Forest, Hemlock-Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Beech-Red Maple-Hemlock-Northern Hardwood Forest Variant, Hemlock Forest
Wilmington	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	
Tunbridge	Harvest equip operability:	Well suited		
Peru	Road suitability:	Well suited		
Wilmington	Road suitability:	Moderately suited	Wetness	
Tunbridge	Road suitability:	Well suited		
Peru	Erosion hazard (off-road):	Slight		
Wilmington	Erosion hazard (off-road):	Slight		
Tunbridge	Erosion hazard (off-road):	Slight		