

61C: Tunbridge-Lyman complex, 8 to 15 percent slopes, very rocky

The Tunbridge, very rocky component makes up 44 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 mountains on glaciated uplands, hills on glaciated uplands. The parent material consists of loamy supraglacial till derived from granite and gneiss and/or loamy supraglacial till derived from phyllite and/or loamy supraglacial till derived from mica schist. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Lyman, very rocky component makes up 39 percent of the map unit. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is low. This component is on hills on glaciated uplands, mountains on glaciated uplands. The parent material consists of loamy supraglacial till derived from granite and gneiss and/or loamy supraglacial till derived from phyllite and/or loamy supraglacial till derived from mica schist. Depth to a root restrictive layer, bedrock, lithic, is 11 to 24 inches.

Important farmland classification: NPSL

Land capability: 6 s

Vermont Agricultural Value Group: 9

Vermont Residential Onsite Waste Disposal Group and Subgroup: Ilc

This unit is moderately 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 bedrock in some areas is the primary concern. A significant percentage of this map unit has sufficient soil depth over bedrock to accept a range of designs. 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.

| 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, very rocky | 0-3 | MPM | --- | 3.5 - 5.5 | 1-14 | 35-95 | --- | --- | 2 |
| | 3-5 | HPM | --- | 3.5 - 5.5 | 1-14 | 35-95 | --- | --- | |
| | 5-8 | FSL | 1-10 | 3.5 - 6.0 | 0.1-14 | 1.4-5.7 | .37 | .37 | |
| | 8-11 | FSL | 1-10 | 3.5 - 6.0 | 0.1-14 | 3.1-25 | .32 | .32 | |
| | 11-26 | FSL | 1-10 | 3.5 - 6.0 | 0.1-14 | 2.2-18 | .37 | .37 | |
| | 26-28 | FSL | 1-10 | 5.1 - 6.5 | 0.1-14 | 1.0-4.2 | .43 | .43 | |
| | 28-38 | BR | --- | --- | 0.001-14 | --- | --- | --- | |
| Lyman, very rocky | 0-1 | MPM | --- | 3.5 - 5.5 | 1-14 | 35-95 | --- | --- | 1 |
| | 1-3 | L | 1-10 | 3.5 - 6.0 | 0.1-14 | 4.0-20 | .32 | .32 | |
| | 3-5 | FSL | 1-10 | 3.5 - 6.0 | 0.1-14 | 1.4-5.7 | .37 | .37 | |
| | 5-7 | L | 1-10 | 3.5 - 6.0 | 0.1-14 | 3.1-25 | .32 | .32 | |
| | 7-11 | L | 1-10 | 3.5 - 6.0 | 0.1-14 | 2.2-18 | .32 | .32 | |
| | 11-18 | CN-L | 1-10 | 3.5 - 6.0 | 0.1-14 | 2.2-7.0 | .24 | .32 | |
| | 18-28 | BR | --- | --- | 0.001-14 | --- | --- | --- | |

| 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, very rocky | C | --- | None | | None | | No | 20-40 |
| Lyman, very rocky | D | --- | None | | None | | No | 11-24 |

| LAND USE LIMITATIONS | | | | AGRICULTURAL YIELD DATA | |
|-----------------------|---------------------------|--------------|-----------------------|-------------------------|--------------|
| Soil name | Land use | Rating | Reason ** | Crop name | Yield / acre |
| Tunbridge, very rocky | Dwellings with basements: | Very limited | Depth to hard bedrock | Pasture | 3.1 AUM |
| Lyman, very rocky | Dwellings with basements: | Very limited | Depth to hard bedrock | | |
| Tunbridge, very rocky | Pond reservoir areas: | Very limited | Slope | | |
| Lyman, very rocky | Pond reservoir areas: | Very limited | Slope | | |

Soil Fact Sheet - Continued

Caledonia County, Vermont

WOODLAND MANAGEMENT

| Soil name | Management concern | Rating | Reason | Vermont natural communities |
|-----------|----------------------------|-------------------|--|--|
| Tunbridge | Harvest equip operability: | Moderately suited | 0.1 to 3% surface cover fragments \geq 600mm (m ² bouldery) | Northern Hardwood Forest, Hemlock-Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Beech-Red Maple-Hemlock-Northern Hardwood Forest Variant, Hemlock Forest |
| Lyman | Harvest equip operability: | Moderately suited | 0.1 to 3% surface cover fragments \geq 600mm (m ² bouldery) | |
| Tunbridge | Road suitability: | Moderately suited | Slope | |
| Lyman | Road suitability: | Moderately suited | Slope | |
| Tunbridge | Erosion hazard (off-road): | Slight | | |
| Lyman | Erosion hazard (off-road): | Moderate | Slope/erodibility | |