## 71C: Tunbridge-Lyman complex, 3 to 15 percent slopes, rocky

The Tunbridge, rocky component makes up 50 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 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 20 to 40 inches.

The Lyman, rocky component makes up 33 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: Statewide | Land capability: 3 e | Vermont Agricultural Value Group: 5 |
|---|---|---|

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIc

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

| LAND USE LIMITATIONS | | | | AGRICULTURAL YIELD DATA | |
|---|---|---|---|---|---|
| Soil name | Land use | Rating | Reason ** | Crop name | Yield / acre |
| Lyman, rocky | Dwellings with basements: | Very limited | Depth to hard bedrock | Grass-legume hay | 3.5 Tons |
| Tunbridge, rocky | Dwellings with basements: | Very limited | Depth to hard bedrock | Corn silage | 18 Tons |
| Lyman, rocky | Pond reservoir areas: | Very limited | Depth to bedrock | Grass-clover | 5.6 AUM |
| Tunbridge, rocky | Pond reservoir areas: | Very limited | Slope | Grass-clover | 4.8 AUM |
| | | | | Grass-legume hay | 2.5 Tons |
| | | | | Corn silage | 12 Tons |

**WOODLAND MANAGEMENT**

| Soil name | Management concern | Rating | Reason | Vermont natural communities |
|---|---|---|---|---|
| Lyman | 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 |
| Tunbridge | Harvest equip operability: | Well suited | | |
| Lyman | Road suitability: | Moderately suited | Slope | |
| Tunbridge | Road suitability: | Moderately suited | Slope | |
| Lyman | Erosion hazard (off-road): | Slight | | |
| Tunbridge | Erosion hazard (off-road): | Slight | | |