## 402D: Tunbridge-Lyman association, hilly, rocky

The Tunbridge component makes up 60 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, ridges on glaciated uplands, knolls on glaciated uplands. The parent material consists of coarse-loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Lyman component makes up 30 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, knolls on glaciated uplands, ridges on glaciated uplands. The parent material consists of coarse-loamy till. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches.

| Important farmland classification: NPSL | Land capability: 6 s | Vermont Agricultural Value Group: 10 |
|---|---|---|

Vermont Residential Onsite Waste Disposal Group and Subgroup: IId

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 and slopes greater than 20 percent in some areas are the primary concerns. 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. 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 |
| Tunbridge | 0-4 | GR-FSL | 5-9 | 3.6 - 6.0 | 0.6-6 | 2.0-8.0 | .10 | .20 | 2 |
| | 4-35 | STV-FSL | 3-9 | 3.6 - 6.0 | 0.6-6 | 0.5-4.5 | .15 | .32 | |
| | 35-45 | UWB | --- | --- | 0.01-20 | --- | --- | --- | |
| Lyman | 0-4 | FSL | 2-10 | 3.6 - 6.0 | 2-6 | 2.0-4.0 | .37 | .37 | 1 |
| | 4-11 | FSL | 2-10 | 3.6 - 6.0 | 2-6 | 2.0-4.0 | .43 | .43 | |
| | 11-21 | UWB | --- | --- | 0.01-20 | --- | --- | --- | |

| 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 | C | --- | None | | None | | No | 20-40 |
| Lyman | D | --- | None | | None | | No | 10-20 |

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

| WOODLAND MANAGEMENT | | | | |
|---|---|---|---|---|
| Soil name | Management concern | Rating | Reason | Vermont natural communities |
| Tunbridge | 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 |
| Lyman | Harvest equip operability: | Well suited | | |
| Tunbridge | Road suitability: | Poorly suited | Slope | |
| Lyman | Road suitability: | Poorly suited | Slope | |
| Tunbridge | Erosion hazard (off-road): | Moderate | Slope/erodibility | |

| | | | |
|---|---|---|---|
| Lyman | Erosion hazard (off-road): | Moderate | Slope/erodibility |