Welcome to Web Soil Survey (WSS)

Web Soil Survey (WSS) provides soil data and information produced by the National Cooperative Soil Survey. It is operated by the USDA Natural Resources Conservation Service (NRCS) and provides access to the largest natural resource information system in the world. NRCS has soil maps and data available online for more than 95 percent of the nation's counties and anticipates having 100 percent in the near future. The site is updated and maintained online as the single authoritative source of soil survey information.

Soil surveys can be used for general farm, local, and wider area planning. Onsite investigation is

https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm
**Map Unit Legend**

<table>
<thead>
<tr>
<th>Map Unit Symbol</th>
<th>Map Unit Name</th>
<th>Acres in AOI</th>
<th>Percent of AOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFB</td>
<td>Charlton fine sandy loam, 3 to 8 percent slopes</td>
<td>14.8</td>
<td>86.8%</td>
</tr>
<tr>
<td>CFC</td>
<td>Charlton fine sandy loam, 3 to 8 percent slopes</td>
<td>0.9</td>
<td>5.5%</td>
</tr>
<tr>
<td>CSB</td>
<td>Charlton very stony fine sandy loam, 3 to 8 percent slopes</td>
<td>1.1</td>
<td>6.2%</td>
</tr>
<tr>
<td>CSB</td>
<td>Charlton very stony fine sandy loam, 3 to 8 percent slopes</td>
<td>0.2</td>
<td>1.4%</td>
</tr>
<tr>
<td><strong>Totals for Area of Interest</strong></td>
<td></td>
<td><strong>17.0</strong></td>
<td><strong>100.0%</strong></td>
</tr>
</tbody>
</table>

**Report — Map Unit Description**

**Strafford County, New Hampshire**

C1B—Charlton fine sandy loam, 3 to 8 percent slopes

**Map Unit Setting**
- Elevation: 0 to 1,000 feet
- Mean annual precipitation: 42 to 46 inches
- Mean annual air temperature: 45 to 48 degrees F
- Frost-free period: 120 to 160 days

**Map Unit Composition**
- Charlton and similar soils: 85 percent
- Minor components: 15 percent

**Description of Charlton**

Settings:
- Parent material: Till

**Properties and Qualities**
- Slope: 3 to 8 percent
- Depth to restrictive feature: More than 80 inches
- Drainage class: Well drained
- Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
- Depth to water table: More than 80 inches
- Frequency of flooding: None
- Frequency of ponding: None

**Interpretive groups**
- Farmland classification: All areas are prime farmland
- Land capability (nonirrigated): 2e
- Hydrologic Soil Group: B

**Minor Components**

- Hollis Percent of map unit: 5 percent
- Not named Percent of map unit: 5 percent
- Sutton Percent of map unit: 5 percent

**Note:** Mapping of soils is done at a particular scale. The level of detail shown in the resulting soil map are...
This interpretation rates soils for their use in establishing and maintaining turf for lawns and golf fairways and ornamental trees and shrubs for residential or commercial landscaping. Lawns and landscaping require soils on which turf and ornamental trees and shrubs can be established and maintained. Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required.

The ratings are based on the use of soil material at the site, which may have been altered by some land smoothing. Irrigation may or may not be needed and is not a criterion in rating. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfide materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. Soils that are subject to flooding are limited by the duration and intensity of flooding and the season when flooding occurs. In planning for lawns, landscaping, or golf fairways, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.
### Summary by Map Unit — Strafford County, New Hampshire (NH017)

<table>
<thead>
<tr>
<th>Map unit symbol</th>
<th>Map unit name</th>
<th>Rating</th>
<th>Component name (percent)</th>
<th>Rating reasons (numeric values)</th>
<th>Acres in AOI</th>
<th>Percent of AOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB</td>
<td>Charlton fine sandy loam, 3 to 8 percent slopes</td>
<td>Somewhat limited</td>
<td>Charlton (85%)</td>
<td>Dusty (0.00)</td>
<td>14.8</td>
<td>86.8%</td>
</tr>
<tr>
<td>CEC</td>
<td>Charlton fine sandy loam, 8 to 15 percent slopes</td>
<td>Somewhat limited</td>
<td>Charlton (85%)</td>
<td>Slope (0.63) Dusty (0.00)</td>
<td>0.9</td>
<td>5.5%</td>
</tr>
<tr>
<td>CBE</td>
<td>Charlton very stony fine sandy loam, 3 to 8 percent slopes</td>
<td>Somewhat limited</td>
<td>Charlton (85%)</td>
<td>Large stones content (0.84) Dusty (0.00)</td>
<td>1.1</td>
<td>6.2%</td>
</tr>
<tr>
<td>CSD</td>
<td>Charlton very stony fine sandy loam, 15 to 25 percent slopes</td>
<td>Very limited</td>
<td>Charlton (85%)</td>
<td>Slope (1.00) Large stones content (0.84) Dusty (0.00)</td>
<td>0.2</td>
<td>1.4%</td>
</tr>
</tbody>
</table>

**Totals for Area of Interest**: 17.0 100.0%

### Table — Lawns, Landscaping, and Golf Fairways — Summary by Rating Value

<table>
<thead>
<tr>
<th>Rating</th>
<th>Acres in AOI</th>
<th>Percent of AOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Somewhat limited</td>
<td>16.8</td>
<td>99.6%</td>
</tr>
<tr>
<td>Very limited</td>
<td>0.2</td>
<td>1.4%</td>
</tr>
</tbody>
</table>

**Totals for Area of Interest**: 17.0 100.0%
<table>
<thead>
<tr>
<th>Map Unit Symbol</th>
<th>Map Unit Name</th>
<th>Acres in AOI</th>
<th>Percent of AOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>MaB</td>
<td>Marlow fine sandy loam, 3 to 8 percent slopes</td>
<td>7.6</td>
<td>19.3%</td>
</tr>
<tr>
<td>MbC</td>
<td>Marlow fine sandy loam, 8 to 15 percent slopes, very stony</td>
<td>3.8</td>
<td>9.8%</td>
</tr>
<tr>
<td>MbD</td>
<td>Marlow fine</td>
<td>11.7</td>
<td>29.7%</td>
</tr>
</tbody>
</table>
Sullivan County, New Hampshire

Map Unit Description

Mbc—Marlow fine sandy loam, 8 to 15 percent slopes, very stony

Map Unit Setting

- National map unit symbol: 2ty5p
- Elevation: 520 to 1,900 feet
- Mean annual precipitation: 31 to 95 inches
- Mean annual air temperature: 27 to 55 degrees F
- Frost-free period: 90 to 160 days
- Farmland classification: Farmland of local importance

Map Unit Composition

- Marlow, very stony, and similar soils: 85 percent
- Minor components: 15 percent

Estimates are based on observations, descriptions, and transect the mapunit.

Description of Marlow, Very Stony

Setting

- Landform: Mountains, hills
- Landform position (two-dimensional): Summit, shoulder, backslope
- Landform position (three-dimensional): Mountain base, mountain flank, side slope, nose slope, interfluve
- Down-slope shape: Convex
- Across-slope shape: Convex
- Parent material: Loamy lodgment till derived from granite and/or loamy lodgment till derived from mica schist and/or loamy lodgment till derived from phyllite

Typical profile

- Oi - 0 to 2 inches: slightly decomposed plant material
- A - 2 to 5 inches: fine sandy loam
- E - 5 to 8 inches: fine sandy loam
- Bs1 - 8 to 15 inches: fine sandy loam
- Bs2 - 15 to 19 inches: fine sandy loam
- BC - 19 to 33 inches: gravely fine sandy loam
- Cd - 33 to 65 inches: fine sandy loam

Properties and qualities

- Slope: 8 to 15 percent
- Percent of area covered with surface fragments: 1.1 percent
- Depth to restrictive feature: 20 to 41 inches to dense material
- Natural drainage class: Well drained
- Capacity of the most limiting layer to transmit water (Ksat):
  - Moderately low to moderately high (0.01 to 1.42 in/hr)
- Depth to water table: More than 80 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Salinity, maximum in profile: Nonsaline (0.0 to 1.9 mmhos/cm)
- Available water storage in profile: Low (about 5.1 inches)