TB2: Physical Properties and Moisture Relationships of Some Representative Maine Soil Types

Walter J. Grant
Eliot Epstein

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Physical Properties and Moisture Relationships of Some Representative Maine Soil Types

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Soil Scientists, Soil and Water Conservation Research Division
Agricultural Research Service
United States Department of Agriculture

Bulletin T2 Technical Series
Soil physical properties determine to a large extent the type of soil management practices followed in a given area. One of the physical characteristics most commonly used by the agriculturist is the available water-holding-capacity (AWC) of a soil. With the increase in use of irrigation in the Northeast, it becomes necessary to obtain more accurate methods for estimating irrigation requirements. Knowledge of the available water-holding-capacity of a soil can be very useful in making more reliable estimates.

The available water-holding-capacity of a soil is influenced by the texture, organic matter content, mineralogical components, and structure of the soil. For mineral soils in the Northeast States, texture is probably the most significant factor affecting soil water retention characteristics. Hence, if the effect of particle size distribution on the water retention characteristics of a given group of soils is known, soil texture can then be an effective measure for estimating the available water-holding-capacity of the soil.

A number of investigators correlated available soil moisture with texture, organic matter and capillary porosity. Jamison and Kroth (6), Hill (4), Lund (7) and Bartelli and Peters (1) found a significant positive correlation between available water and silt content. Lund obtained a negative correlation between sand and available water. Although there have been reports (4, 6) of correlation between organic matter and available water, the small coefficient does not justify using this relationship.

The objective of the present study was to determine physical properties of key agricultural soils with major emphasis on soil moisture characteristics and on the relation of soil textural components to available moisture holding capacity.
SOILS STUDIED

The soils were selected in cooperation with the Agronomy Department, Maine Agricultural Experiment Station, and the Soil Conservation

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Location</th>
<th>Maine Field Number</th>
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</thead>
<tbody>
<tr>
<td>Adams Loamy Sand, Silty Clay Substrata</td>
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<td>M- 6-59</td>
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<tr>
<td>Adams Loamy Sand</td>
<td>Saco</td>
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<td>Adams Loamy Fine Sand</td>
<td>Skowhegan</td>
<td>M-10-60</td>
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<tr>
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<td>Skowhegan</td>
<td>M-11-60</td>
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<tr>
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<td>Greenbush</td>
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<td>Fort Fairfield</td>
<td>M- 7-60</td>
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<td>Suffield Silt Loam</td>
<td>Old Town</td>
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<td>Strong</td>
<td>M-17-60</td>
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<td>Farmington</td>
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<tr>
<td>Thorndike Shaly Loam</td>
<td>Perham</td>
<td>M-29-60</td>
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</table>
Service. A total of 51 profiles, representing 23 soil series and 29 soil types, was sampled (Table 1). For a number of the soil types, samples were taken from different locations to afford a measure of variability within soil types.

Soil samples were taken only from crop land. The profile descriptions for each site were given in a previous publication (3).

METHODS AND PROCEDURE

Sampling procedure

Undisturbed soil samples were taken in triplicate from each major horizon. The samples were taken in thin-walled rings approximately two inches in diameter and one inch high with a modified Lutz-type core sampler. A quantity of disturbed soil was also taken from each horizon location from which the cores were extracted.

Laboratory procedure

Available water-holding-capacity (AWC) was determined for each horizon from the moisture retention characteristics. Core samples were placed on a ceramic pressure plate apparatus and the moisture content of samples in equilibrium with 1/10, 1/3 and 2/3 atmosphere tension was determined. The higher tensions of 5 and 15 atmospheres were obtained by placing disturbed samples in a pressure membrane apparatus. The available water was considered to be that difference between the amount retained at 1/3 atmosphere tension (assumed to be field capacity) and the 15-atmosphere value (wilting point). To convert to a volume basis, the moisture content by weight was multiplied by the bulk density and that value is presented in the appended tables as inches of water/inch of soil. Bulk density, or the weight of a unit volume of dry soil, was calculated as the average density of the three core samples. Cores that contained large stones or large root channels were discarded. It was impossible to obtain core samples from some horizons; for these horizons the density was determined on clods.

A number of profiles contained a large percentage of coarse fragments above 4 mm. These fragments were not a part of the sample used in the moisture retention determinations. Consideration must be given to the amount of coarse fragments present in a given site and the data corrected accordingly.

The percentages of sand, silt and clay were determined by the hydrometer method (2). Samples containing more than one percent of organic matter were treated with hydrogen peroxide prior to analysis. The subdivisions of the sand fraction were obtained by wet sieving the sample. Organic matter content of the soil horizons was determined by rapid chromic acid titration (8).
RESULTS AND DISCUSSION

Physical properties of these soils are tabulated by soil type in the appendix. The textural classifications that appear in the soil-type nomenclature were designated in the field and hence there may be a discrepancy with the texture obtained in the laboratory.

The variability of available water-holding-capacity within a soil type for those soil types sampled from two or more locations is shown in Table 2. In two-thirds of the comparisons the available water-holding capacity was in good agreement. In a few cases, notably, Buxton silt loam, Dixmont silt loam, Hadley silt loam, Salmon silt loam, and Suffield silt loam, the agreement was poor. In these six soil types the wide discrepancies between samples may be associated with marked differences in the texture of the soil profile. For example two Suffield silt loam samples showed values of .24 and .28 AWC and the other two contained .15 inches/inch for the 30-inch depth. The two samples high in AWC were high in silt content, whereas the low AWC samples contained considerably more clay below a depth of 14 inches. These latter samples were designated in the laboratory to be silty clay

Table 2. Variability of available water-holding-capacity within soil types.

<table>
<thead>
<tr>
<th>Soil type</th>
<th>Average AWC for 30-inch depth</th>
<th>Locations</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in./in.</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Adams loamy sand</td>
<td>.06</td>
<td>.03</td>
<td>.07</td>
</tr>
<tr>
<td>Allagash sandy loam</td>
<td>.08</td>
<td>.11</td>
<td>—</td>
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<tr>
<td>Bangor silt loam</td>
<td>.19</td>
<td>.19</td>
<td>.24</td>
</tr>
<tr>
<td>Buxton silt loam</td>
<td>.18</td>
<td>.18</td>
<td>.22</td>
</tr>
<tr>
<td>Caribou gravelly loam</td>
<td>.21</td>
<td>.25</td>
<td>—</td>
</tr>
<tr>
<td>Caribou grav. silt loam</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Colton sandy loam</td>
<td>.06</td>
<td>.04</td>
<td>—</td>
</tr>
<tr>
<td>Conant silt loam</td>
<td>.21</td>
<td>.18</td>
<td>—</td>
</tr>
<tr>
<td>Daigle silt loam</td>
<td>.21</td>
<td>.16</td>
<td>—</td>
</tr>
<tr>
<td>Dixmont silt loam</td>
<td>.16*</td>
<td>.22</td>
<td>—</td>
</tr>
<tr>
<td>Easton silt loam</td>
<td>.12</td>
<td>.11</td>
<td>—</td>
</tr>
<tr>
<td>Hadley silt loam</td>
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<td>.30*</td>
<td>—</td>
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<td>Monarda silt loam</td>
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<td>.22</td>
<td>—</td>
</tr>
<tr>
<td>Perham grav. silt loam</td>
<td>.21</td>
<td>.22</td>
<td>—</td>
</tr>
<tr>
<td>Plaisted loam</td>
<td>.17</td>
<td>.15</td>
<td>.27*</td>
</tr>
<tr>
<td>Salmon silt loam</td>
<td>.14*</td>
<td>.28</td>
<td>—</td>
</tr>
<tr>
<td>Stetson gravelly loam</td>
<td>.09</td>
<td>.11</td>
<td>—</td>
</tr>
<tr>
<td>Suffield silt loam</td>
<td>.24*</td>
<td>.28*</td>
<td>.15</td>
</tr>
<tr>
<td>Suncook loamy sand</td>
<td>.08</td>
<td>.09</td>
<td>—</td>
</tr>
<tr>
<td>Thorndike silt loam</td>
<td>.16</td>
<td>.22</td>
<td>—</td>
</tr>
</tbody>
</table>

1 Depth to 30 inches or pan or bedrock
loams rather than silt loams. In another example, the discrepancy between the two Salmon silt loam samples may be partially explained by the high sand content, 98.7 percent, in the 20 to 30 inch depth of the Anson sample.

Correlation coefficients indicating the relation of the textural components to the moisture characteristics of 216 soil horizons are presented in Table 3. Available water capacity (AWC) was better correlated with silt than with either sand or clay content. A multiple correlation of AWC vs. silt, sand and clay did not materially improve the correlation as compared to that of AWC vs. silt.

The relation between the silt content of the soil and AWC for all horizons of all soils studied is shown in Figure 1. Soils high in silt generally are high in AWC. The relationship of AWC vs. silt for the Alluvial soils is shown in Figure 2. Although the total number of samples was small it appears that the relationship is much better than that obtained for all soils. Figure 3 shows the relation between silt and AWC for all Podzol soils. The relationship here is little better than for all soils. A few soils of the Brown Podzolic and Low Humic Gley groups were included in the study, but not enough to determine the relation between silt content and AWC.

Some of the more significant relationships between particle size and moisture retention characteristics are presented in Figures 4 to 7. The data in figure 4 show a good linear relationship between the silt fraction and water retained in the soil against 1/3 atm. tension. The relationship between silt and the 15-atm. percentage, however, was not as good (Figure 5). The reverse was true for the clay fraction. The best linear correlation was obtained between the clay fraction and the 15-atm. percentage (Figure 6), whereas the correlation between clay and the 1/3-atm. percentage was not as high (Figure 7). This would indicate, therefore, that the silt fraction was the dominant textural component affecting soil moisture at low tension levels and the clay fraction was dominant at high tension levels. Even though the correlations between silt and the 15-atm. percentage, and between clay and the 1/3-atm. percentage, were statistically significant, there was too much variation to be of practical significance.

The relationship between texture and water retention characteristics of soils described above can be an extremely useful tool in estimating the available water-holding-capacity of soils if the limitations are understood. The results presented here are representative of Maine mineral soils and cannot be extrapolated to other areas or to soils high in organic matter. As previously mentioned, stoniness was not considered in the data presented here. Therefore, a correction must be made for this factor when estimating the water-holding-capacity of the soil. Jamison (5)
Table 3. Correlation coefficients between AWC and the textural components for all horizons of all soils.

<table>
<thead>
<tr>
<th>Soil property</th>
<th>r</th>
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<td>AWC vs. Silt</td>
<td>0.785**</td>
</tr>
<tr>
<td>AWC vs. Sand</td>
<td>-0.694**</td>
</tr>
<tr>
<td>AWC vs. Clay</td>
<td>0.253**</td>
</tr>
<tr>
<td>AWC vs. Organic matter</td>
<td>0.282**</td>
</tr>
</tbody>
</table>

*Available water capacity
**Significant at 1% level

pointed out that soil structure affects the amount of water retained at low tensions. This would, therefore, affect the values for the ½-atm. percentage under field conditions, and consequently affect the available water holding capacity. Other factors which need to be considered are zones of impedance, poor surface drainage and internal drainage. As methods of defining soil structure become available, it may be possible to estimate the available water holding capacity from a combination of soil structure and texture determinations.

When the above limitations are taken into consideration, soil texture (predominantly the silt content), can be a useful tool in estimating the water-holding-capacity of the soil.

LITERATURE CITED

Figure 1. Available water capacity as a function of silt content.

$ r = 0.785^{* *}$
Figure 2. Available water capacity as a function of silt for the Alluvial soils.
Figure 3. Available water capacity as a function of silt for the podzol soils.

$\rho = 0.800**$
Figure 4. 1/3-atm. percentage as a function of silt content.
Figure 5. 15-atm. percentage as a function of silt content.
Figure 6. 15-atm. percentage as a function of clay content.
Figure 7. 1/3-atm. percentage as a function of clay content.
### Adams Loamy Sand, Silty Clay Substrata

**M-6-59**

<table>
<thead>
<tr>
<th>Horizon</th>
<th>Depth</th>
<th>Texture</th>
<th>Diameter in mm.</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<td>58.1</td>
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<td>1.5</td>
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<td>12-24</td>
<td>Sand</td>
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<td>1.3</td>
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<td>59.5</td>
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### Adams Loamy Sand

**M-8-59**

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<th>Diameter in mm.</th>
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<th>Silt</th>
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<th>Moisture content</th>
<th>Available moisture</th>
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<td>53.8</td>
<td>32.4</td>
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### Portland, Cumberland County

**M-6-59**

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<th>Depth</th>
<th>Texture</th>
<th>Diameter in mm.</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<td>A_0</td>
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<td>Sandy loam</td>
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<td>9.9</td>
<td>36.2</td>
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<td>6.7</td>
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<tr>
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<td>Sand</td>
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<td>Sand</td>
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<td>59.5</td>
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<td>2.4</td>
<td>1.4</td>
<td>0.0</td>
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### Saco, York County

<table>
<thead>
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<th>Horizon</th>
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<th>Texture</th>
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### Adams Loamy Fine Sand

**M-10-60**

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### Allagash Sandy Loam, Shallow to Sand

**M-11-60**

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### Allagash Fine Sandy Loam

M-1-59

#### Greenbush, Penobscot County

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### Bangor Silt Loam

M-4-59

#### Dexter, Penobscot County

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# Bangor Silt Loam

**M 7-58**

### Newport, Penobscot County

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# Bangor Silt Loam

**M-23-60**

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## Buxton Silt Loam

**M-9-59**

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## Buxton Silt Loam

**M-12-59**

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Buxton Silt Loam

**M-12-59**

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Buxton Silt Loam

**Brewer, Penobscot County**

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### Buxton Silt Loam

**M-14-60**

<table>
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<th>1-5</th>
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<th>%</th>
<th>%</th>
<th>% by weight</th>
<th>15 atm</th>
<th>15 atm</th>
<th>Per inch of soil</th>
<th>Bulk density</th>
<th>Organic matter %</th>
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<td><strong>A</strong></td>
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<td>Silty clay loam</td>
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### Buxton Silt Loam

**M-4-58**

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<th>25-1</th>
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<th>%</th>
<th>% by weight</th>
<th>15 atm</th>
<th>15 atm</th>
<th>Per inch of soil</th>
<th>Bulk density</th>
<th>Organic matter %</th>
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<td>0.3</td>
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### Caribou Gravelly Loam

**M-8-60**

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<th>Texture</th>
<th>Diameter in mm.</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tr>
<td></td>
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<td>Loam</td>
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<td>7.2</td>
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<td>33.0</td>
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<td>Silt loam</td>
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* Clods

### Caribou Gravelly Silt Loam

**M-13-59**

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<th>Texture</th>
<th>Diameter in mm.</th>
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<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<td>1-5</td>
<td>.5-.25</td>
<td>.25-1</td>
<td>.1-.05</td>
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<td>Loam</td>
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<td></td>
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<td>B₀⅓</td>
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<td>Loam</td>
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<td>11.7</td>
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<td>14-18</td>
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* Clods
### Colton Loamy Fine Sand

**M-1-58 Orono, Penobscot County**

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<th>Depth</th>
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<th>Diameter in mm.</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
<th>Available moisture</th>
<th>Bulk density</th>
<th>Organic matter</th>
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<td></td>
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<td>1.5</td>
<td>.5-.25</td>
<td>.25-.1</td>
<td>.1-.05</td>
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<td>15 atm.</td>
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<td>39.5</td>
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<td>6.5</td>
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<td>Sand</td>
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<td>12.2</td>
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<td>Sand</td>
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<td>90.7</td>
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<td>15.4</td>
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<td>98.8</td>
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### Colton Sandy Loam

**M-1-60 Columbia, Washington County**

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<th>Depth</th>
<th>Texture</th>
<th>Diameter in mm.</th>
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<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
<th>Available moisture</th>
<th>Bulk density</th>
<th>Organic matter</th>
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<tbody>
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<td></td>
<td></td>
<td>2-1</td>
<td>1.5</td>
<td>.5-.25</td>
<td>.25-.1</td>
<td>.1-.05</td>
<td>Total</td>
<td>1/3 atm.</td>
<td>15 atm.</td>
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<td>Sandy loam</td>
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<td>Loamy sand</td>
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<td>Sand</td>
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<td>48.0</td>
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<td>0.0</td>
<td>1.7</td>
<td>98.7</td>
<td>1.3</td>
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</table>
### Colton Sandy Loam

**M-2-60**

| Horizon | Depth | Texture          | Diameter in mm. | Sand  | Silt | Clay | Moisture content | Available moisture | Bulk density | Organic matter%
|---------|-------|------------------|-----------------|-------|------|------|------------------|-------------------|--------------|------------------|
|         |       |                  |                 |       | %    | %    | % by weight | Per inch of soil | Inch | Gm/cc | %
| A       | 1-5   | Loamy sand       | 2-1 1.5 .5-.25 .25-1 .1-.05 | 1.9   | 36.8 | 23.1 | 7.9 | 10.0 | 79.7 | 7.8 | 2.5 | 11.2 | 5.3 | 0.07 | 1.14 | 1.7
| B<sub>21</sub> | 5-9   | Sandy loam       | 2-1 1.5 .5-.25 .25-1 .1-.05 | 1.9   | 37.2 | 16.9 | 4.5 | 0.0 | 60.5 | 32.8 | 6.7 | 29.9 | 19.5 | 0.08 | 0.81 | 4.4
| B<sub>22</sub> | 9-13  | Sandy loam       | 2-1 1.5 .5-.25 .25-1 .1-.05 | 2.6   | 41.4 | 18.1 | 2.7 | 2.4 | 67.2 | 32.0 | 0.8 | 18.9 | 10.7 | 0.08 | 1.02 | 2.8
| B<sub>1</sub> | 13-23 | Sand             | 2-1 1.5 .5-.25 .25-1 .1-.05 | 1.7   | 51.2 | 31.5 | 2.3 | 5.7 | 92.4 | 7.6 | 0.0 | 3.9 | 2.6 | 0.02 | 1.33 | 0.5
| D       | 23-29+| Sand             | 2-1 1.5 .5-.25 .25-1 .1-.05 | 6.6   | 60.5 | 26.5 | 1.8 | 4.6 | 100.0 | 0.0 | 0.0 | 1.1 | 1.0 | 0.01 | 1.47 | 0.2

### Conant Silt Loam

**M-3-60**

| Horizon | Depth | Texture | Diameter in mm. | Sand  | Silt | Clay | Moisture content | Available moisture | Bulk density | Organic matter%
|---------|-------|---------|-----------------|-------|------|------|------------------|-------------------|--------------|------------------|
|         |       |         |                 | %    | %    | %    | % by weight | Per inch of soil | Inch | Gm/cc | %
| A<sub>p</sub> | 0-11  | Silt loam | 2.6 | 7.4 | 5.5 | 8.4 | 7.1 | 31.0 | 50.0 | 19.0 | 29.4 | 14.0 | 0.16 | 1.05 | 7.6
| B<sub>2</sub> | 11-13 | Loam    | 5.2 | 7.5 | 6.6 | 9.1 | 7.1 | 35.5 | 48.0 | 16.5 | 25.4 | 11.9 | 0.17 | 1.25 | 3.7
| A<sub>2e</sub> | 13-22 | Loam    | 4.3 | 11.1 | 9.7 | 11.7 | 9.2 | 46.0 | 42.5 | 11.5 | 21.0 | 5.6 | 0.28 | 1.83* | 1.1
| B<sub>21eq</sub> | 22-35 | Loam    | 3.5 | 8.9 | 8.1 | 10.3 | 8.2 | 39.0 | 42.0 | 19.0 | 14.4 | 2.2 | 0.25 | 1.98* | 0.6

* Clods
### Conant Silt Loam

**M-5-60**

<table>
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<tr>
<th>Horizon</th>
<th>Depth</th>
<th>Texture</th>
<th>Diameter in mm.</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tbody>
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<td></td>
<td></td>
<td></td>
<td>2-1</td>
<td>1-5</td>
<td>.5-.25</td>
<td>.25-1</td>
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<td>4.7</td>
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<td>Silt loam</td>
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<td>7.0</td>
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<td>1.3</td>
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<td>9.0</td>
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<td>Loam</td>
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* Clods

### Daigle Silt Loam

**M-27-60**

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<th>Depth</th>
<th>Texture</th>
<th>Diameter in mm.</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tbody>
<tr>
<td></td>
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<td>2-1</td>
<td>1-5</td>
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<td>A&lt;sub&gt;p&lt;/sub&gt;</td>
<td>0-10</td>
<td>Silt loam</td>
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<td>1.7</td>
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<td>5.3</td>
<td>7.1</td>
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<td>Silt loam</td>
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<td>2.0</td>
<td>2.7</td>
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<td>1.2</td>
<td>3.4</td>
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<td>51.0</td>
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<td>B&lt;sub&gt;27-36&lt;/sub&gt;</td>
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<td>3.7</td>
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* Clods
### Daigle Silt Loam

**M-31-60**

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<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
<th>Bulk density</th>
<th>Organic matter % by weight</th>
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<td>1.5-2.5</td>
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<td>%</td>
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<td>Silt loam</td>
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<td>7.3</td>
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<td>Silt loam</td>
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<td>7.7</td>
<td>8.8</td>
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<tr>
<td>B&lt;sub&gt;1c&lt;/sub&gt;</td>
<td>10-21</td>
<td>Clay loam</td>
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<td>9.4</td>
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<td>21-30+</td>
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### Dixmont Silt Loam

**M-3-59**

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<th>Sand Diameter in mm.</th>
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<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
<th>Bulk density</th>
<th>Organic matter % by weight</th>
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<td></td>
<td></td>
<td>2-1</td>
<td>1.5-2.5</td>
<td>2.5-5</td>
<td>5-10</td>
<td>Total</td>
<td>%</td>
<td>1/3 atm.</td>
</tr>
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<td>Silt loam</td>
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<td>0.7</td>
<td>4.8</td>
<td>7.4</td>
<td>12.0</td>
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<td>B&lt;sub&gt;1&lt;/sub&gt;</td>
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<td>Loam</td>
<td>4.0</td>
<td>10.6</td>
<td>7.8</td>
<td>10.2</td>
<td>9.4</td>
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<td>45.0</td>
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<tr>
<td>B&lt;sub&gt;2c&lt;/sub&gt;</td>
<td>15-23</td>
<td>Silt loam</td>
<td>1.8</td>
<td>6.2</td>
<td>5.5</td>
<td>8.1</td>
<td>10.4</td>
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<td>52.0</td>
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<td>B&lt;sub&gt;2c&lt;/sub&gt;</td>
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<td>Silt loam</td>
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<td>6.2</td>
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<td>34.5</td>
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## Dixmont Silt Loam

**Cornville, Somerset County**

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<th>Sand Diameter in mm.</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture Content</th>
<th>Available Moisture</th>
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<td>.5-25</td>
<td>.25-1</td>
<td>.1-05</td>
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<td>0-9</td>
<td>Silt loam</td>
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<td>6.6</td>
<td>4.8</td>
<td>8.6</td>
<td>11.7</td>
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<td>B&lt;sub&gt;21&lt;/sub&gt;</td>
<td>9-11</td>
<td>Silt loam</td>
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<td>6.8</td>
<td>6.6</td>
<td>8.6</td>
<td>13.3</td>
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<td>B&lt;sub&gt;22g&lt;/sub&gt;</td>
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<td>Sandy loam</td>
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<td>24-36+</td>
<td>Loam</td>
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<td>9.8</td>
<td>11.5</td>
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## Easton Silt Loam

**Caribou, Aroostook County**

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<th>Sand Diameter in mm.</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture Content</th>
<th>Available Moisture</th>
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<td>1.5</td>
<td>.5-25</td>
<td>.25-1</td>
<td>.1-05</td>
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<td>Silt loam</td>
<td>1.1</td>
<td>3.9</td>
<td>4.5</td>
<td>6.3</td>
<td>5.2</td>
</tr>
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<td>A&lt;sub&gt;1l&lt;/sub&gt;</td>
<td>12-17</td>
<td>Silt loam</td>
<td>3.7</td>
<td>11.5</td>
<td>17.5</td>
<td>11.1</td>
<td>9.2</td>
</tr>
<tr>
<td>B&lt;sub&gt;21g&lt;/sub&gt;</td>
<td>17-25</td>
<td>Silt loam</td>
<td>2.8</td>
<td>12.0</td>
<td>9.8</td>
<td>11.3</td>
<td>8.1</td>
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<td>B&lt;sub&gt;22g&lt;/sub&gt;</td>
<td>25-42</td>
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<td>7.3</td>
<td>11.6</td>
<td>9.1</td>
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</table>

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<th>Texture</th>
<th>Sand Diameter in mm.</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture Content</th>
<th>Available moisture</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>2-1 1-5 .5-.25 .25-1 .1-.05 Total</td>
<td>%</td>
<td>%</td>
<td>% by weight</td>
<td>% by weight</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>% % % % % % at 3 atm. 15 atm.</td>
<td></td>
<td></td>
<td>Per inch of soil</td>
<td>Bulk density</td>
</tr>
<tr>
<td>A&lt;sub&gt;p&lt;/sub&gt;</td>
<td>0-6</td>
<td>Silt loam</td>
<td>0.0 1.6 3.4 5.4 4.6 15.0 63.5 21.5 48.5 19.7</td>
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<td>1.06</td>
<td>10.8</td>
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<td>6-10</td>
<td>Silt loam</td>
<td>2.4 7.4 7.6 8.7 6.9 33.0 50.5 16.5 21.1 10.3</td>
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<td>1.53</td>
<td>2.0</td>
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<tr>
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<td>10-27</td>
<td>Loam</td>
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<th>Texture</th>
<th>Sand Diameter in mm.</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture Content</th>
<th>Available moisture</th>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>2-1 1-5 .5-.25 .25-1 .1-.05 Total</td>
<td>%</td>
<td>%</td>
<td>% by weight</td>
<td>% by weight</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>% % % % % % at 3 atm. 15 atm.</td>
<td></td>
<td></td>
<td>Per inch of soil</td>
<td>Bulk density</td>
</tr>
<tr>
<td>A&lt;sub&gt;p&lt;/sub&gt;</td>
<td>0-9</td>
<td>Silt loam</td>
<td>0.0 0.4 0.9 14.7 21.0 37.0 56.0 7.0 21.0 7.0</td>
<td>0.18</td>
<td>1.28</td>
<td>3.5</td>
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<tr>
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<td>9-30+</td>
<td>Silt loam</td>
<td>0.0 0.0 0.1 5.1 17.8 23.0 73.0 4.0 24.8 5.7</td>
<td>0.22</td>
<td>1.12</td>
<td>1.5</td>
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### Hadley Silt Loam

**M-20-60**

Norridgewock, Somerset County

<table>
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<th>Texture</th>
<th>Sand Diameter in mm.</th>
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<th>Available moisture</th>
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<td>2-1</td>
<td>1.5</td>
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<td>0.9</td>
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<td>10-30+</td>
<td>Silt</td>
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### Hinckley Sandy Loam

**M-7-59**

Sanford, York County

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<th>Texture</th>
<th>Sand</th>
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<th>Available moisture</th>
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<td>23.2</td>
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<td>Loamy sand</td>
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<td>33.1</td>
<td>19.5</td>
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<td>14-20</td>
<td>Loamy sand</td>
<td>5.5</td>
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<td>C</td>
<td>20-26</td>
<td>Sand</td>
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<td>38.0</td>
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<tr>
<td>D</td>
<td>26-32+</td>
<td>Sand</td>
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<td>Horizon</td>
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<td>Texture</td>
<td>Sand Diameter in mm.</td>
<td>Silt</td>
<td>Clay</td>
</tr>
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<td>2-1 1-5 .5-25 .25-1 .1-05</td>
<td>Total</td>
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<td>55.5</td>
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<tr>
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<td>Silt loam</td>
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<td>28.5</td>
<td>55.5</td>
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<table>
<thead>
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<th>Depth</th>
<th>Texture</th>
<th>Sand Diameter in mm.</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
<th>Organic matter</th>
<th>Bulk density</th>
<th>Gm/cc</th>
<th>Organic matter %</th>
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<td></td>
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<td>15 atm.</td>
<td>Per inch of soil</td>
<td>Inch</td>
<td>Gm/cc</td>
<td>% by weight</td>
</tr>
<tr>
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<td>Silt loam</td>
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<td>23.5</td>
<td>55.5</td>
<td>21.0</td>
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<td>16.0</td>
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</tr>
<tr>
<td>B&lt;sub&gt;21&lt;/sub&gt;</td>
<td>7-15</td>
<td>Silt loam</td>
<td>0.9 3.8 4.7 9.9 10.5</td>
<td>29.8</td>
<td>57.2</td>
<td>13.0</td>
<td>20.6</td>
<td>6.2</td>
<td>0.22</td>
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<td>1.2</td>
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<td>B&lt;sub&gt;23&lt;/sub&gt;</td>
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<td>55.5</td>
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Monarda Silt Loam

M-16-60

Cornville, Somerset County

<table>
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<th>Depth</th>
<th>Texture</th>
<th>Diameter in mm.</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
</tr>
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<tbody>
<tr>
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<td>2-1 1-5 .5-.25 .25-.1 .1-.05 Total</td>
<td>%</td>
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<td>% by weight</td>
<td>Inch</td>
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<tr>
<td>A_0</td>
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<td>0.17</td>
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<td>0.6</td>
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<tr>
<td>B_22</td>
<td>22-28</td>
<td>Silt loam</td>
<td>1.6 5.0 4.4 7.3 6.7 25.0</td>
<td>65.0 10.0</td>
<td>20.3 5.0</td>
<td>0.29</td>
<td>1.85*</td>
<td>0.3</td>
</tr>
</tbody>
</table>

* Clods

Ondawa Fine Sandy Loam

M-32-60

Milo, Piscataquis County

| Horizon | Depth | Texture | | Diameter in mm. | Sand | Silt | Clay | Moisture content | Available moisture |
|---------|-------|---------|----------------|------|------|------|------------------|-------------------|
|         |       |         | 2-1 1-5 .5-.25 .25-.1 .1-.05 Total | %    | %    | %    | % by weight | Inch | Gm/cc | %     |
| A_p     | 0-10  | Sandy loam | 0.0 1.3 14.7 29.8 12.7 58.5 | 34.5 7.0 | 22.7 7.8 | 0.18 | 1.22 | 3.4 |
| C_1     | 10-21 | Sandy loam | 0.4 4.3 11.6 24.7 13.5 54.5 | 39.5 6.0 | 22.1 4.9 | 0.19 | 1.10 | 1.7 |
| C_2     | 21-32 | Sandy loam | 0.0 1.1 9.5 36.1 21.8 68.5 | 29.0 2.5 | 21.7 5.0 | 0.18 | 1.04 | 1.2 |
| D       | 32-40+| Sand     | 4.7 18.1 29.9 23.1 13.9 89.7 | 10.3 0.0 | 9.6 2.0 | 0.10 | 1.38 | 0.5 |
### Perham Gravelly Silt Loam

**M-26-60**

Smyrna, Aroostook County

<table>
<thead>
<tr>
<th>Horizon</th>
<th>Depth</th>
<th>Texture</th>
<th>Diameter in mm.</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
<th>Per inch of soil</th>
<th>Bulk density</th>
<th>Organic matter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>% by weight</td>
<td>Inch</td>
<td>Gm/cc</td>
<td>%</td>
</tr>
<tr>
<td>A&lt;sub&gt;0&lt;/sub&gt;</td>
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<td>Silt loam</td>
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<td>7.4</td>
<td>5.9</td>
<td>6.8</td>
<td>5.6</td>
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<td>7.7</td>
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<td>56.0</td>
<td>9.0</td>
<td>25.4</td>
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<tr>
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<td>16-27</td>
<td>Silt loam</td>
<td>3.3</td>
<td>9.9</td>
<td>6.7</td>
<td>7.9</td>
<td>8.2</td>
<td>36.0</td>
<td>52.0</td>
<td>12.0</td>
<td>16.4</td>
</tr>
<tr>
<td>B'&lt;sup&gt;2&lt;/sup&gt;</td>
<td>27-36+</td>
<td>Silt loam</td>
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<td>7.4</td>
<td>5.7</td>
<td>6.8</td>
<td>7.8</td>
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* Clods

### Perham Gravelly Silt Loam

**M-30-60**

Perham, Aroostook County

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<th>Texture</th>
<th>Diameter in mm.</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
<th>Per inch of soil</th>
<th>Bulk density</th>
<th>Organic matter</th>
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<tr>
<td></td>
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<td>%</td>
<td>%</td>
<td>%</td>
<td>% by weight</td>
<td>Inch</td>
<td>Gm/cc</td>
<td>%</td>
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<td>A&lt;sub&gt;0&lt;/sub&gt;</td>
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<td>Silt loam</td>
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<td>7.1</td>
<td>5.8</td>
<td>7.1</td>
<td>5.6</td>
<td>28.0</td>
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<td>33.4</td>
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<td>35.0</td>
<td>52.2</td>
<td>12.8</td>
<td>22.9</td>
</tr>
<tr>
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<td>Loam</td>
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<td>7.1</td>
<td>6.9</td>
<td>9.1</td>
<td>8.2</td>
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<td>47.0</td>
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</tr>
<tr>
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* Clods
## Plaisted Loam

**M-2-58**

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<th>Texture</th>
<th>Diameter in mm.</th>
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<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>2-1 1-5 .5-25 .25-1 .1-05 Total</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>% by weight</td>
<td>Per inch of soil</td>
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<tr>
<td>A_p</td>
<td>0-9</td>
<td>Loam</td>
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<td>12.2</td>
<td>15.1</td>
<td>10.5</td>
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<td>9-14</td>
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<td></td>
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<td>13.0</td>
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<td>C_1m</td>
<td>14-36</td>
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<td>11.7</td>
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<td>3.4</td>
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## Plaisted Loam

**M-2-59**

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<th>Diameter in mm.</th>
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<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>2-1 1-5 .5-25 .25-1 .1-05 Total</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>% by weight</td>
<td>Per inch of soil</td>
</tr>
<tr>
<td>A_p</td>
<td>0-8</td>
<td>Loam</td>
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<td>11.7</td>
<td>11.0</td>
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<td>10.3</td>
</tr>
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<td>8.9</td>
<td>9.3</td>
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<tr>
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<td>26-32+</td>
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Old Town, Penobscot County

Orono, Penobscot County
### Planted Loam

**M-24-60**

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<th>1.5-25</th>
<th>.25-1</th>
<th>.1-05</th>
<th>Total</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>% atm.</td>
<td>15 atm.</td>
</tr>
<tr>
<td><strong>Inches</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
</tr>
<tr>
<td>A&lt;sub&gt;p&lt;/sub&gt;</td>
<td>0-8</td>
<td>Silt loam</td>
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<td>6.5</td>
<td>7.5</td>
<td>10.8</td>
<td>10.2</td>
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<td>52.2</td>
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<td>31.5</td>
</tr>
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<td>Silt loam</td>
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<td>39.5</td>
<td>56.2</td>
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<td>37.8</td>
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<td>Silt loam</td>
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<td>3.1</td>
<td>4.1</td>
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<td>54.5</td>
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<td>31.5</td>
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<td>3.2</td>
<td>3.9</td>
<td>25.4</td>
<td>36.5</td>
<td>54.7</td>
<td>8.8</td>
<td>25.4</td>
</tr>
<tr>
<td>C</td>
<td>18-36+</td>
<td>Silt loam</td>
<td>0.8</td>
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<td>3.6</td>
<td>4.5</td>
<td>27.9</td>
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<td>51.0</td>
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<td>17.6</td>
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### Salmon Silt Loam

**M-21-60**

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<th>Texture</th>
<th>2-1</th>
<th>1.5-25</th>
<th>.25-1</th>
<th>.1-05</th>
<th>Total</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>% atm.</td>
<td>15 atm.</td>
</tr>
<tr>
<td><strong>Inches</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
<td><strong>%</strong></td>
</tr>
<tr>
<td>A&lt;sub&gt;p&lt;/sub&gt;</td>
<td>0-7</td>
<td>Silt loam</td>
<td>0.6</td>
<td>2.5</td>
<td>3.8</td>
<td>11.9</td>
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<td>60.5</td>
<td>5.5</td>
<td>28.3</td>
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<td>0.9</td>
<td>0.8</td>
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<td>31.9</td>
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<tr>
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<td>Sand</td>
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### Salmon Silt Loam

**M-22-60**

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<th>Sand Diameter in mm</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
<th>Bulk density</th>
<th>Organic matter</th>
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<td>15.2</td>
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<td>58.0</td>
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<td>0.5</td>
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### Scantic Silt Loam

**M-13-60**

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<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
<th>Bulk density</th>
<th>Organic matter</th>
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<tbody>
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<td>2.5</td>
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<td>1.0</td>
<td>15.5</td>
<td>63.5</td>
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### Stetson Gravelly Loam

**M-11-59**

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<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tbody>
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<td>.25-1</td>
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<td>10.2</td>
<td>6.3</td>
</tr>
<tr>
<td>B&lt;sub&gt;1&lt;/sub&gt;</td>
<td>10-13</td>
<td>Loamy sand</td>
<td>23.7</td>
<td>19.7</td>
<td>23.1</td>
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<td>5.0</td>
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<td>B&lt;sub&gt;2&lt;/sub&gt;</td>
<td>13-28</td>
<td>Sandy</td>
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<td>46.1</td>
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<td>B&lt;sub&gt;b&lt;/sub&gt;</td>
<td>28-38</td>
<td>Sand</td>
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<td>38-44+</td>
<td>Sand</td>
<td>52.5</td>
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<td>15.2</td>
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### Stetson Gravelly Loam

**M-7-60**

<table>
<thead>
<tr>
<th>Horizon</th>
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<th>Texture</th>
<th>Sand Diameter in mm.</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tbody>
<tr>
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<td></td>
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<td>2-1</td>
<td>1.5</td>
<td>.5-25</td>
<td>.25-1</td>
<td>.1-.05</td>
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<td>0-8</td>
<td>Loam</td>
<td>1.7</td>
<td>7.5</td>
<td>17.9</td>
<td>16.9</td>
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<td>B&lt;sub&gt;1&lt;/sub&gt;</td>
<td>8-14</td>
<td>Sandy loam</td>
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<td>12.5</td>
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<tr>
<td>B&lt;sub&gt;b&lt;/sub&gt;</td>
<td>14-23</td>
<td>Loamy sand</td>
<td>2.5</td>
<td>20.6</td>
<td>28.4</td>
<td>17.0</td>
<td>9.7</td>
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<td>D&lt;sub&gt;1&lt;/sub&gt;</td>
<td>23-36</td>
<td>Sand</td>
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### Suffield Silt Loam

**M-5-58**

<table>
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<th>Texture</th>
<th>Sand Diameter in mm.</th>
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<th>Clay</th>
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<td>2-1</td>
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<td>1.9</td>
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<tr>
<td>B3</td>
<td>10-20</td>
<td>Silt loam</td>
<td>1.3</td>
<td>0.7</td>
<td>1.4</td>
</tr>
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<td>C</td>
<td>20-26+</td>
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### Suffield Silt Loam

**M-6-58**

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<th>Sand Diameter in mm.</th>
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<th>Clay</th>
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<td></td>
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<td>2-1</td>
<td>1.5</td>
<td>.5-.25</td>
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<tr>
<td>Ap</td>
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<td>Silt loam</td>
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<td>1.6</td>
<td>1.3</td>
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<td>B2</td>
<td>7-11</td>
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<td>1.8</td>
<td>1.0</td>
</tr>
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<td>B3</td>
<td>11-16</td>
<td>Silt loam</td>
<td>0.3</td>
<td>1.8</td>
<td>1.1</td>
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<tr>
<td>C</td>
<td>16-22+</td>
<td>Silt loam</td>
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### Suffield Silt Loam

**M-10-59**

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<th>1.5</th>
<th>.5-25</th>
<th>.25-1</th>
<th>.01-05</th>
<th>Total</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tr>
<td>A&lt;sub&gt;0&lt;/sub&gt;</td>
<td>0-9</td>
<td>Silt loam</td>
<td>4.0</td>
<td>4.3</td>
<td>5.3</td>
<td>4.5</td>
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<td>23.5</td>
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<tr>
<td>B&lt;sub&gt;21&lt;/sub&gt;</td>
<td>9-15</td>
<td>Silt loam</td>
<td>2.2</td>
<td>3.2</td>
<td>3.9</td>
<td>3.7</td>
<td>5.5</td>
<td>18.5</td>
<td>54.5</td>
<td>27.0</td>
</tr>
<tr>
<td>B&lt;sub&gt;22&lt;/sub&gt;</td>
<td>15-24</td>
<td>Silty clay loam</td>
<td>0.2</td>
<td>0.3</td>
<td>0.5</td>
<td>0.7</td>
<td>1.5</td>
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<td>Silty clay loam</td>
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### Suffield Silt Loam

**M-12-60**

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<th>Depth</th>
<th>Texture</th>
<th>0- 6</th>
<th>1.5</th>
<th>.5-25</th>
<th>.25-1</th>
<th>.01-05</th>
<th>Total</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tbody>
<tr>
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<td>Silt loam</td>
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<td>Silt loam</td>
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<td>0.7</td>
<td>0.8</td>
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<td>14.8</td>
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<td>19.0</td>
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<td>B&lt;sub&gt;22&lt;/sub&gt;</td>
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<td>Silt loam</td>
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<td>0.9</td>
<td>0.9</td>
<td>4.3</td>
<td>11.9</td>
<td>18.0</td>
<td>63.0</td>
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<td>B&lt;sub&gt;23&lt;/sub&gt;</td>
<td>14-36+</td>
<td>Silty clay loam</td>
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### Suffield Silt Loam

**Skowhegan, Somerset County**

<table>
<thead>
<tr>
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<th>Texture</th>
<th>Moisture content</th>
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<td>Silt loam</td>
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<td>1.19</td>
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<tr>
<td>B&lt;sub&gt;21&lt;/sub&gt;</td>
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<td>Silt loam</td>
<td>25.4</td>
<td>1.11</td>
</tr>
<tr>
<td>B&lt;sub&gt;22&lt;/sub&gt;</td>
<td>10-14</td>
<td>Silt loam</td>
<td>21.5</td>
<td>1.29</td>
</tr>
<tr>
<td>B&lt;sub&gt;23&lt;/sub&gt;</td>
<td>14-36+</td>
<td>Silty clay loam</td>
<td>16.5</td>
<td>1.63</td>
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</table>
# Suncook Loamy Sand

**M-17-60**

<table>
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<th>Depth</th>
<th>Texture</th>
<th>Diameter in mm.</th>
<th>SAND</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
</tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td>2-1 1.5 .5-25 .25-1 .1-05</td>
<td>Total</td>
<td>%</td>
<td>%</td>
<td>% by weight</td>
<td>Per inch of soil</td>
</tr>
<tr>
<td>A_p</td>
<td>0-10</td>
<td>Loamy sand</td>
<td>0.6 7.8 26.2 24.1 18.3</td>
<td>77.0</td>
<td>18.0</td>
<td>5.0</td>
<td>10.6 atm.  6.2 atm.</td>
<td>0.08</td>
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<tr>
<td>C_1</td>
<td>10-15</td>
<td>Sandy loam</td>
<td>1.0 1.6 6.9 35.6 22.4</td>
<td>66.5</td>
<td>31.8</td>
<td>1.7</td>
<td>15.0 atm.  4.3 atm.</td>
<td>0.13</td>
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<tr>
<td>C_2</td>
<td>15-24</td>
<td>Sand</td>
<td>2.6 59.4 27.6 4.3 3.6</td>
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<td>3.2 atm.  1.3 atm.</td>
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<td>0.1 10.8 29.0 24.8 17.3</td>
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<td>18.0</td>
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<td>11.4 atm.  3.8 atm.</td>
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</tr>
<tr>
<td>C_4</td>
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<td>Sand</td>
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<td>0.0</td>
<td>3.6 atm.  1.8 atm.</td>
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**Suncook Loamy Sand**

**M-18-60**

<table>
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<th>Depth</th>
<th>Texture</th>
<th>Diameter in mm.</th>
<th>SAND</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<tbody>
<tr>
<td></td>
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<td>2-1 1.5 .5-25 .25-1 .1-05</td>
<td>Total</td>
<td>%</td>
<td>%</td>
<td>% by weight</td>
<td>Per inch of soil</td>
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<tr>
<td>A_p</td>
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<td>0.4 4.4 27.0 30.5 16.2</td>
<td>78.5</td>
<td>17.7</td>
<td>3.8</td>
<td>11.0 atm.  5.0 atm.</td>
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<td>Loamy sand</td>
<td>0.0 0.1 13.6 39.9 17.4</td>
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<td>10.8 atm.  4.4 atm.</td>
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</tr>
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<td>C_2</td>
<td>24-27</td>
<td>Sand</td>
<td>0.0 1.8 59.8 27.0 6.4</td>
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### Thorndike Silt Loam

**M-3-58**

Garland, Penobscot County

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<th>Texture</th>
<th>Sand Diameter in mm.</th>
<th>Silt</th>
<th>Clay</th>
<th>Moisture content</th>
<th>Available moisture</th>
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<td>.5-25</td>
<td>.25-1</td>
<td>.1-.05</td>
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<td>A&lt;sub&gt;p&lt;/sub&gt;</td>
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<td>Silt loam</td>
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<td>3.5</td>
<td>5.1</td>
<td>5.9</td>
<td>7.7</td>
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<tr>
<td>B&lt;sub&gt;p&lt;/sub&gt;</td>
<td>8-14</td>
<td>Silt loam</td>
<td>6.0</td>
<td>3.8</td>
<td>5.3</td>
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<td>8.2</td>
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<td>B&lt;sub&gt;c&lt;/sub&gt;</td>
<td>14-20</td>
<td>Silt loam</td>
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<td>9.4</td>
<td>10.0</td>
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<td>Silt loam</td>
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### Thorndike Shaly Silt Loam

**M-25-60**

St. Albans, Somerset County

<table>
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<th>Depth</th>
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<th>Sand Diameter in mm.</th>
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<th>Clay</th>
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<th>Available moisture</th>
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<td>2-1</td>
<td>1.5</td>
<td>.5-25</td>
<td>.25-1</td>
<td>.1-.05</td>
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<td>Silt loam</td>
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<td>8.1</td>
<td>6.8</td>
<td>8.0</td>
<td>9.1</td>
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<td>Silt loam</td>
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<td>6.7</td>
<td>5.8</td>
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<td>11.9</td>
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<td>B&lt;sub&gt;p2&lt;/sub&gt;</td>
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<td>Silt loam</td>
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<td>7.2</td>
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<td>Texture</td>
<td>Sand Diameter in mm.</td>
<td>Silt</td>
<td>Clay</td>
<td>Moisture content</td>
<td>Available moisture</td>
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