Introduction

A basic knowledge of soils is vital in preparing sound development plans. The type of vegetation to be grown for erosion control and landscaping requires knowledge about the soils of the site and selection of erosion and sediment control practices is influenced by soil characteristics. In general, erosion and sediment control and stormwater management can be accomplished more cost effectively if soils are considered.

Information about the soils of an area can be obtained from the Web Soil Survey at http://websoilsurvey.nrcs.usda.gov. However, for detailed planning, the survey should be verified by an on-site investigation. For design purposes an on-site investigation is imperative.

Using a Soil Survey

A soil survey includes soil maps, soil descriptions, and interpretations for many different uses of the soils. Soil surveys information for all 67 counties of the state is available at the Web Soil Survey (http://websoilsurvey.nrcs.usda.gov) or the local Natural Resources Conservation Service office.

In a soil survey, boundaries of the different kinds of soils are delineated, showing their location and extent in relation to streams, roads, and other landscape features. The soils are named according to a nationwide uniform procedure that was developed by the Soil Survey Staff of the U.S. Department of Agriculture and published as Soil Taxonomy. The primary basis for identifying different classes in this system are the properties of soils as found in the field that can be measured quantitatively.

The soils identified on a map in a soil survey are named in terms of soil series. Soil series are made up of soils that have similar properties. This means that the horizons or layers are similar in thickness, arrangement, and other important characteristics.

Interpretation tables with information similar to that shown in Table Soils-4 are a part of all recent soil surveys. Interpretation tables list properties and typical site conditions that are important in erosion control, sediment control and stormwater management planning. These include depth to bedrock, hydrologic group, liquid limit, permeability, plasticity index, slope, soil erodibility factor (K factor), soil

Soils in Alabama
reaction (pH), and texture. The interpretation tables also give other ratings, and limitations that are important for site selection and development, such as seasonal high water table, shrink-swell potential, risk of corrosion, engineering classification, and hydrologic soil groups.

In order to make accurate interpretations limitations of the survey must be understood. First, the data generally do not represent soil material below 5 or 6 feet. Also, small areas that differ from the dominant soil identified may not be delineated on the map because the scale of the map limits the size of areas that can be shown. The ranges given for soil properties are often too wide for the design needs of a small development. Therefore, to evaluate most specific soil characteristics an on-site investigation is essential.

Information that is needed on critical soil properties below 5 feet will need to be obtained through soil borings and evaluations by an experienced soil professional.

Some Properties of Soils

Some of the properties of soils commonly mapped in Alabama are described in this section. Related values for some of these properties are shown in Table Soils-4.

Additional information on soils can be found in Section II of the Field Office Technical Guide at the local Natural Resources Conservation Service office.

**Depth to Bedrock**

Soil survey interpretations in the Electronic Field Office Technical Guide (eFOTG) [http://efotg.sc.egov.usda.gov/efotg_locator.aspx?map=US](http://efotg.sc.egov.usda.gov/efotg_locator.aspx?map=US) of the Natural Resources Conservation Service generally provide an estimate of depth to and hardness of bedrock, the solid (fixed) rock underlying the soil. This information is helpful in determining time and cost of excavation as well as potential erodibility of the subsoil material. Hardness classes, "soft" and "hard", indicate the ease of excavating into the bedrock. "Soft" rock is likely to be sufficiently soft, thinly bedded, or fractured so that excavation can be made with trenching machines, backhoes, small rippers, or other equipment common in construction of pipelines, sewer lines, cemeteries, dwellings, or small buildings. "Hard" rock is likely to require blasting or special equipment beyond what is considered normal in this type of construction.

Bedrock at shallow depths limits plant growth by restricting root penetration. In most soils there is a negative correlation between depth to bedrock and water holding capacity.

**Hydrologic Soil Group (HSG)**

Hydrologic soil group (HSG) identifies soils having the same runoff potential under similar storm and cover conditions. Soil properties that determine the hydrologic groups include the following: seasonal high water table, water intake rate and
permeability after wetting, and depth to a slowly permeable layer. The influence of ground cover is not considered. Soils are placed into four groups (A, B, C, and D) and three dual classes (A/B, B/D, C/D). In the definition of classes, the infiltration rate is controlled by surface conditions. Transmission rate is the rate water moves in the soil, controlled by the permeability of deeper horizons.

**Group A (low runoff potential)** - These soils have high infiltration rates even when thoroughly wetted, consisting chiefly of deep, well-drained to excessively drained sands or gravels. These soils have a high rate of water transmission.

**Group B** - These soils have moderate infiltration rates when thoroughly wetted, consisting chiefly of moderately deep to deep, moderately fine to moderately coarse textures. These soils have a moderate rate of water transmission.

**Group C** - These soils have slow infiltration rates when thoroughly wetted. Group C soils commonly have a layer that impedes the downward movement of water or can consist of moderately fine to fine-textures particles. These soils have a slow rate of water transmission.

**Group D (high runoff potential)** - These soils have very slow infiltration rates when thoroughly wetted and consist chiefly of clay soils with high swelling potential. These soils frequently have a permanent high water table or a slowly permeable layer at or near the surface. Other soils in this group consist of shallow soils over nearly impervious material. These soils have a very slow rate of water transmission.

Dual hydrologic groups, A/D, B/D, and C/D are indicated for certain wet soils that can be drained. The first letter applies to the drained condition, the second to the undrained condition. Only soils that are rated D in their natural condition are assigned to a dual group.

*Permeability*

Permeability is a major factor influencing erosion. It refers to the soil's ability to transmit water or air and depends on both the size and volume of pores. Deep, permeable soils are less erodible because more rainfall soaks in, reducing surface runoff. Because permeability varies with depth, excavation can expose layers that are more or less permeable than the original surface. Compaction reduces permeability.

*Plasticity Index (PI) and Liquid Limit (LL)*

Both the plasticity index (PI) and liquid limit (LL) indicate the affect of water on the strength and consistency of soil. The PI and LL of a soil are most important in fine-grained soils. Soils with greater plasticity generally have a higher cohesion and resistance to erosion than soils with a lower plasticity. These indexes are used in both the Unified and the American Association of State Highway and Transportation Officials (AASHTO) soil classification systems, which are described in more detail later. They are also used as indicators in making general predictions of soil behavior.
Appendix

Slope

The erosion potential for sheet, rill and gully erosion increases with slope length and gradient. Long and steep slopes have a high potential for soil loss from surface runoff. Soil surveys include ranges for slope steepness but do not include values for slope length.

**Soil Erodibility Factor (K)**

The soil erodibility factor, K, provides a measure of the susceptibility of soil particles to sheet and rill erosion by runoff from rain storms or irrigation. The principle factors affecting K are texture, organic matter, structure, and permeability. The ability of a soil to erode increases with increasing K values. Subsoils exposed during construction, however, may be too deep to be included in the table.

**Soil Reaction (pH)**

Soil reaction represents the degree of acidity or alkalinity of a soil, expressed as pH. The pH in soils normally is directly related to parent material. The principal value of soil pH measurement is the knowledge it gives about associated soil characteristics, such as phosphorous availability or the base saturation. A pH of approximately 6 to 7 indicates readily available plant nutrients.

Leaching removes bases, causing a pH decline. Therefore, the amount of rainfall, rate of percolation, return movement of moisture by capillary action, and evaporation affect pH. The pH is higher in many of the soils of the Prairie than most other soils in Alabama.

Soil reaction is also used as an indicator of corrosivity. In general, soils that are either very alkaline or very acid are likely to be highly corrosive to steel. Soils that are acid are likely to be corrosive to concrete.

**Texture and Classifications**

**ASSHTO System**

The ASSHTO system classifies soils according to the properties that affect roadway construction and maintenance. The fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of grain-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in silt and clay. Soils in group A-7 are fine grained. Highly organic soils are in Group A-8 and are classified on the basis of visual inspection.

**Unified System**

The Unified System classifies soils according to suitability for construction material and considers grain-size distribution, plasticity index, liquid limit, and organic matter content. This classification is based on that portion of soil having particles smaller than 3 inches in diameter. Classes include coarse-grained soils (GW, GP, GM, GC, SW, SP, SM, SC), fine-grained soils (ML, CL, OL, MH, CH, OH) and highly organic soils (PT). Borderline soils require a dual classification symbol such as GW-GC. A description for each class in the Unified System is given in Table Soils-1.
# Table Soils-1  Classification of Materials for the Unified System

<table>
<thead>
<tr>
<th>Group Symbol</th>
<th>Description of Material Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coarse-grained</strong></td>
<td></td>
</tr>
<tr>
<td>GW</td>
<td>Well-graded gravels and gravel sand mixture little or no fines. 50°s or more retained on No. 4 sieve. More than 95% retained on No. 200 sieve. Clean.</td>
</tr>
<tr>
<td>GP</td>
<td>Poorly-graded gravels and gravel sand mixtures, little or no fines. 50% or more retained on No. 4 sieve. More than 95% retained on No. 200 sieve. Clean.</td>
</tr>
<tr>
<td>GM</td>
<td>Silty gravels, gravel-sand-silt mixtures. 50% or more retained on No. 4 sieve. More than 50% retained on No. 200 sieve.</td>
</tr>
<tr>
<td>GC</td>
<td>Clayey gravels, gravel-sand-clay mixtures. 50% or more retained on No. 4 sieve. More than 50% retained on No. 200 sieve.</td>
</tr>
<tr>
<td>SW</td>
<td>Well-graded sands and gravelly sands with little or no fines. More than 50% passes No. 4 sieve. More than 95% retained on No. 200 sieve. Clean.</td>
</tr>
<tr>
<td>SP</td>
<td>Poorly graded sands and gravelly sands, little or no fines. More than 50% passes No. 4 sieve. More than 95% retained on No. 200 sieve. Clean.</td>
</tr>
<tr>
<td>SM</td>
<td>Silty sands, sand-silt mixtures. More than 50% passes No. 4 sieve. More than 50% retained on No. 200 sieve.</td>
</tr>
<tr>
<td>SC</td>
<td>Clayey sands, sand-clay mixtures. More than 50% passes No. 4 sieve. More than 50% retained on No. 200 sieve.</td>
</tr>
<tr>
<td><strong>Fine-grained</strong></td>
<td></td>
</tr>
<tr>
<td>OL</td>
<td>Organic silts and organic silty clays of low plasticity. Liquid limit of 50% or less. 50% or more passes No. 200 sieve.</td>
</tr>
<tr>
<td>ML</td>
<td>Inorganic silts, very fine sands, rock flour, silty or clayey sands. Liquid limit of 50% or less. 50% or more passes No. 200 sieve.</td>
</tr>
<tr>
<td>CL</td>
<td>Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays. Liquid limit 50% or less. 50% or more passes No. 200 sieve.</td>
</tr>
<tr>
<td>MH</td>
<td>Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts. Liquid limit greater than 50%. 50% or more passes No. 200 sieve.</td>
</tr>
<tr>
<td>CH</td>
<td>Inorganic clays of high plasticity, fat clays. Liquid limit greater than 50%. 50% or more passes No. 200 sieve.</td>
</tr>
<tr>
<td>OH</td>
<td>Organic clays of medium to high plasticity. Liquid limit greater than 50%. 50% or more passes No. 200 sieve.</td>
</tr>
<tr>
<td><strong>Highly organic</strong></td>
<td></td>
</tr>
<tr>
<td>PT</td>
<td>Peat, muck, and other highly organic soils.</td>
</tr>
</tbody>
</table>

**NOTE:** These are boundary classifications. Soils possessing characteristics of two groups are designated by combinations of group symbols. For example, GW-GC is a well-graded, gravel-sand mixture with clay binder. All sieve sizes on this table are U.S. Standard.

**USDA System**

Soil survey interpretations indicate the USDA texture for each soil, expressed as a relative proportion by weight of soil particle size classes finer than 2 mm. Soil texture is defined by the proportions of different size groups of particles. The size limits of the different soil particles are listed in Table Soils-2.
### Table Soils-2  Size limits of Soil Particles

<table>
<thead>
<tr>
<th>Soil Particle</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobble</td>
<td>0.30 - 0.15 m</td>
</tr>
<tr>
<td>Gravel</td>
<td>0.15 - 2.00 mm</td>
</tr>
<tr>
<td>Sand</td>
<td>2.00 - 0.05 mm</td>
</tr>
<tr>
<td>Silt</td>
<td>0.05 - 0.002 mm</td>
</tr>
<tr>
<td>Clay</td>
<td>&lt; 0.002 mm</td>
</tr>
</tbody>
</table>

The basic texture classes, in decreasing particle size, are sands, loams, and clays. On the basis of these classes, additional class names are used such as loamy sand, sandy clay, and silty clay. Sands, loamy sands, and sandy loams may be further subdivided as very coarse, coarse, fine, or very fine. The physical properties and chemical composition of larger soil particles differ from smaller soil particles. Since most physical and chemical reactions occur on the surface of small particles, clay affects soil properties to a much greater extent than do larger particles. Sand and rock fragments retain water and nutrients poorly, because the voids between particles allow water and air to move freely.

Silt particles are barely visible to the naked eye and are intermediate in many properties between sand and clay. Silt is characterized by its plasticity and stickiness. Silt content is an important characteristic for determining erodibility because silt-sized particles are easily detached and transported in runoff. The small particle size makes silt difficult to capture in traps or basins.

There are two major types of clays, kaolinite and smectitic. Kaolinite (referred to as a 1:1 clay) is the most common clay in Alabama soils. It is relatively inactive and fairly stable. Smectitic (referred to as a 2:1 clay) is a very active clay that shrinks when dry and swells when wet. These characteristics affect the permeability of soils and are very important to their use and management. Clayey soils retain water that is available for plant growth, but these soils are often dense, hard, wet, airtight, acidic, and infertile. They can restrict root growth even though other factors are favorable.

Texture modifiers and terms used to describe texture are given in Table Soils-3.
### Table Soils-3  Texture Terms and Modifiers

<table>
<thead>
<tr>
<th>Texture Modifier</th>
<th>Texture Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB</td>
<td>COS</td>
</tr>
<tr>
<td>CBA</td>
<td>S</td>
</tr>
<tr>
<td>CBV</td>
<td>FS</td>
</tr>
<tr>
<td>CBX</td>
<td>VFS</td>
</tr>
<tr>
<td>CN</td>
<td>LCOS</td>
</tr>
<tr>
<td>CNV</td>
<td>LS</td>
</tr>
<tr>
<td>CNX</td>
<td>LFS</td>
</tr>
<tr>
<td>GR</td>
<td>LVFS</td>
</tr>
<tr>
<td>GRC</td>
<td>COSL</td>
</tr>
<tr>
<td>GRF</td>
<td>SL</td>
</tr>
<tr>
<td>GRV</td>
<td>FSL</td>
</tr>
<tr>
<td>GRX</td>
<td>VFSL</td>
</tr>
<tr>
<td>MK</td>
<td>L</td>
</tr>
<tr>
<td>PT</td>
<td>SIL</td>
</tr>
<tr>
<td>SH</td>
<td>SI</td>
</tr>
<tr>
<td>SHV</td>
<td>SCL</td>
</tr>
<tr>
<td>SHX</td>
<td>CL</td>
</tr>
<tr>
<td>SR</td>
<td>SICL</td>
</tr>
<tr>
<td>ST</td>
<td>SC</td>
</tr>
<tr>
<td>STV</td>
<td>sic</td>
</tr>
<tr>
<td>STX</td>
<td>C</td>
</tr>
</tbody>
</table>

**Terms Used in Lieu of Texture**
- G: Gravel
- MARL: Marl
- MPT: Mucky-peat
- MUCK: Muck
- PEAT: Peat
- SG: Sand and Gravel
- UWB: Unweathered Bedrock
- VAR: Variable
- WB: Weathered Bedrock

*Note: These are boundary classifications. Soils possessing characteristics of two or more groups are designated by combinations of group symbols. For example, SR-S-FS is a stratified sand/fine sand.*
### Table Soils-4  Soil Characteristics for Principal Soils in Alabama ¹

<table>
<thead>
<tr>
<th>Name</th>
<th>Depth (IN)</th>
<th>pH</th>
<th>K Group</th>
<th>P.I. USDA</th>
<th>Textural Classification</th>
<th>Unified</th>
<th>AASHTO</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABELL</td>
<td>0-10</td>
<td>3.6-5.5</td>
<td>.29</td>
<td>B 0-15 L</td>
<td>CL, ML, SC, SM</td>
<td>A-4, A-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10-45</td>
<td>3.6-5.5</td>
<td>.28</td>
<td>L 8-22</td>
<td>CL, SC</td>
<td>A-4, A-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>45-60</td>
<td>3.6-5.5</td>
<td>.17</td>
<td>0-7 SR-S FSL</td>
<td>SC-SM, SM, SP-SM</td>
<td>A-1, A-2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A-3, A-4</td>
<td></td>
</tr>
<tr>
<td>ABERNATRY</td>
<td>0-14</td>
<td>5.1-6.0</td>
<td>.37</td>
<td>B 4-15 SIL</td>
<td>CL, CL, ML, ML</td>
<td>A-4, A-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>14-28</td>
<td>5.1-6.0</td>
<td>.37</td>
<td>4-15 SIL, SICL</td>
<td>CL, CL, ML, ML</td>
<td>A-4, A-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>28-60</td>
<td>5.1-6.0</td>
<td>.37</td>
<td>9-20 SICL, SIC</td>
<td>CL</td>
<td>A-4, A-6, A-7</td>
<td></td>
</tr>
<tr>
<td>ADATON</td>
<td>0-6</td>
<td>4.5-5.5</td>
<td>.43</td>
<td>D NP-10 SILL</td>
<td>ML, CL, CL, ML</td>
<td>A-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6-66</td>
<td>4.5-5.5</td>
<td>.32</td>
<td>11-30 SILL, SICL, SIC</td>
<td>CL, CH</td>
<td>A-6, A-7</td>
<td></td>
</tr>
<tr>
<td>AGRICOLA</td>
<td>0-8</td>
<td>5.1-6.5</td>
<td>.28</td>
<td>B 0-12 SILL</td>
<td>ML, SC, SC, SM, SM</td>
<td>A-2, A-4, A-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8-12</td>
<td>5.1-6.5</td>
<td>.28</td>
<td>16-30 C, SC, CL</td>
<td>CH, CL, NH, ML</td>
<td>A-6, A-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12-29</td>
<td>5.1-6.5</td>
<td>.28</td>
<td>16-30 C, SC, CL</td>
<td>CH, CL, NH, ML</td>
<td>A-6, A-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>20-35</td>
<td>5.1-6.5</td>
<td>.28</td>
<td>7-22 SCL, CL, L</td>
<td>CL, ML, SC</td>
<td>A-4, A-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>35-50</td>
<td>5.1-6.5</td>
<td>.28</td>
<td>7-22 SCL, CL, L</td>
<td>CL, ML, SC</td>
<td>A-4, A-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50-60</td>
<td>5.1-6.5</td>
<td>.28</td>
<td>WB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALAGA</td>
<td>0-6</td>
<td>3.6-6.0</td>
<td>.10</td>
<td>A NP S, FS</td>
<td>SM, SP-SM</td>
<td>A-2, A-1-B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-6</td>
<td>3.6-6.0</td>
<td>.10</td>
<td>NP-4 LS, LFS</td>
<td>SM, SM-SM, SP-SM</td>
<td>A-2, A-1-B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6-80</td>
<td>3.6-6.0</td>
<td>.10</td>
<td>NP-4 LS, LFS, FS</td>
<td>SM, SM-SM, SP-SM</td>
<td>A-2</td>
<td></td>
</tr>
<tr>
<td>ALCAMICHEE</td>
<td>0-5</td>
<td>4.5-5.5</td>
<td>.28</td>
<td>B NP-7 L, FSL, SLL</td>
<td>ML, CL, ML, SM, SM-SC</td>
<td>A-2, A-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-5</td>
<td>4.5-5.5</td>
<td>.37</td>
<td>8-25 SILL, SICL, SICL</td>
<td>CL, ML, NH</td>
<td>A-4, A-6, A-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5-52</td>
<td>4.5-5.5</td>
<td>.28</td>
<td>5-20 SCL, CL, L</td>
<td>CL, CL, ML, SC, SM-SC</td>
<td>A-4, A-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>52-65</td>
<td>4.5-5.5</td>
<td>.28</td>
<td>5-20 SCL, CL, L</td>
<td>CL, CL, ML, SC, SM-SC</td>
<td>A-2, A-4, A-6</td>
<td></td>
</tr>
<tr>
<td>ALBANY</td>
<td>0-48</td>
<td>3.6-6.5</td>
<td>.10</td>
<td>C NP LS, LFS</td>
<td>SM</td>
<td>A-2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-48</td>
<td>3.6-6.5</td>
<td>.10</td>
<td>NP S, FS</td>
<td>SM, SP-SM</td>
<td>A-2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>48-56</td>
<td>4.5-6.0</td>
<td>.20</td>
<td>NP S, FS</td>
<td>SM</td>
<td>A-2</td>
<td></td>
</tr>
<tr>
<td>ALBERTVILLE</td>
<td>0-6</td>
<td>4.5-5.5</td>
<td>.20</td>
<td>C NP-7 SL, FSL</td>
<td>MC, ML, SM-SC</td>
<td>A-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-6</td>
<td>4.5-5.5</td>
<td>.28</td>
<td>NP-7 SILL, L</td>
<td>CL, ML, M</td>
<td>A-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6-15</td>
<td>4.5-5.5</td>
<td>.32</td>
<td>11-16 SILL, SICL, CL</td>
<td>CL</td>
<td>A-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15-47</td>
<td>4.5-5.5</td>
<td>.37</td>
<td>14-40 SICL, SICL, C</td>
<td>CL, CH</td>
<td>A-6, A-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>47-66</td>
<td>4.5-5.5</td>
<td>.37</td>
<td>WB</td>
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# Appendix

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*September 2014*
## Appendix

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1. USDA: United States Department of Agriculture
   AASHTO: American Association of State Highway and Transportation Officials
   **Note:** Textural Classification is based on a variety of factors including clay, silt, and sand content.
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**Note:** The textural classification and USDA Unified Soil Classification System codes are indicative of the soil type and its characteristics. The symbols used in the table represent various soil properties and conditions. For detailed interpretation, refer to relevant soil science literature or expert consultation.
### Table Soils-4  Soil Characteristics for Principal Soils in Alabama  

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September 2014
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1. USDA = United States Department of Agriculture; AASHTO = American Association of State Highway and Transportation Officials; USDA = Soil Texture; Unified = Soil Texture; AASHTO = Soil Texture.

Table Soils-4: Soil Characteristics for Principal Soils in Alabama
## Table Soils-4  
Soil Characteristics for Principal Soils in Alabama<br>![Image of the table](https://example.com/table-soils-4.png)

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September 2014
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## Appendix

### Table Soils-4  Soil Characteristics for Principal Soils in Alabama

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|               | 11-25      | 3.6-5.5 | .32 | 14-40 | L|SICL|SICL,C|CN,CL|A-6-A-7
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|               | 0-4        | 5.1-6.5 | .32 | NP-10 | CL, SCL, L | SM, SC, SM-SC, ML | A-4
|               | 0-4        | 5.6-6.5 | .20 | NP-10 | ST-CL, ST-SCL | SM, SC, SM-SC | A-2,A-4
|               | 4-14       | 5.1-6.5 | .32 | 11-20 | GR-CL, CL | ML, CL, SM, SC | A-6-A-7
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|               | 8-18       | 4.5-5.5 | .17 | 0-7   | SL, GR-SL, L | GC, GM, GM, ML, SM | A-2,A-4
|               | 18-22      |         |     |       |       | UNB |                         |                     |
| MYATT         | 0-10       | 4.5-5.5 | .20 | D     | NP-4  | LS, LFS | SM, SM-SC | A-2
|               | 0-10       | 4.5-6.0 | .28 | NP-5  | FSL, FS, VFSL | SM, SM-SC, ML, CL-ML | A-2,A-4
|               | 0-10       | 4.5-6.0 | .32 | NP-4  | SICL, SICL | ML, CL-ML | A-4
|               | 10-50      | 3.6-5.5 | .28 | NP-10 | L, SCL, CL | SM, SC, ML, CL | A-4
| NAHUNTA       | 0-12       | 4.5-6.0 | .43 | C     | NP-10 | VFSL, SICL | ML, CL-ML, CL | A-4
|               | 12-79      | 3.6-5.5 | .43 | 8-30  | L, CL, SICL | CL | A-4,A-6-A-7
| NANKIN        | 0-8        | 4.5-5.5 | .17 | C     | NP-4  | LS, LFS | SM, SP-SM | A-2
|               | 0-8        | 4.5-5.5 | .28 | NP-4  | SICL, SICL | SM, SM-SC | A-2,A-4
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| NAUV00        | 0-11       | 4.5-6.0 | .24 | B     | 3-16  | SCL | SM, SM-SC, SC | A-4,A-6
|               | 0-11       | 4.5-6.0 | .28 | NP-8  | FSL, L, SICL | SM-SC, CL-ML, SC, CL | A-4-A-2
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|               | 0-7        | 5.1-6.0 | .37 | 3-7   | L, SICL, SICL | CL-ML | A-4
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|               | 27-49      | 3.6-5.5 | .32 | 15-30 | SICL, SICL, CL | CL, CH | A-7
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## Appendix

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1 USDA Classification, Unified Classification, AASHTO Classification

*NH: November, ML: March, MB: September, MG: September, CG: December*
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1 Appendix
# Appendix

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*Note: The table provides a summary of soil characteristics for principal soils in Alabama, including pH, K, Group, F.I., USDA classification, and unified classification.*