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A Guide to the classification of soils of Louisiana

M C. Amacher

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A Guide to the Classification of Soils of Louisiana

M. C. AMACHER, W. J. DAY, B. A. SCHUMACHER, P. M. WALTHALL, and B. J. MILLER
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Preface

The idea for this guide to the soils of Louisiana originated with Dr. Bob Miller. Dr. Miller had prepared a brief guide to some of the major soils of Louisiana for his soil pedology course. The guide consisted of tables of the major soils in Louisiana arranged by soil area and taxonomic classification. Dr. Amacher thought that the guide should be expanded to include all the soils mapped in Louisiana and should be published in some form to reach a wider audience. Thus, the idea for the current guide was born. With the untimely death of Dr. Miller, it fell to the coauthors to complete the task. This guide is dedicated to Dr. Bob Miller, whose immense contributions to the study of Louisiana soils have made the job of those who follow so much easier.

Louisiana Agricultural Experiment Station, K. W. Tipton, Director
Louisiana State University Agricultural Center, H. Rouse Caffey, Chancellor

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A Guide to the Classification of Soils of Louisiana

M. C. AMACHER,1 W. J. DAY,1 B. A. SCHUMACHER,2 P. M. WALTHALL,1 AND B. J. MILLER1

Introduction

This guide to the soils of Louisiana is intended to provide a list of the soil series that have been mapped in the state along with basic information about each series. The guide should prove useful to scientists and others interested in soils, since the information is compiled and summarized in a single source.

Table 1 is an alphabetical listing of the soil series that have been mapped in the past or are currently being mapped in Louisiana, along with the taxonomic classification and most common phase of each series (Soil Survey Staff, 1975). As areas are remapped, some of the series listed may be dropped from active use, and some of the more recently defined series may not be on the list.

Table 2 is also an alphabetical listing of the soil series and includes the general soil areas where the soils are normally found; the landscape settings of the soils; the parent materials that the soils are developed in; and information on the drainage, permeability, and areal extent of the soils. The information in this table was taken from the USDA Soil Conservation Service "blue sheet" soil descriptions. More detailed information about the soil series can be found on these sheets and in published soil surveys for the individual parishes where the soil series occurs. The general soil areas are described in the Soil Areas section below. The landscape setting refers to the relative position of the soils in the landscape. Drainage indicates the extent to which water freely drains through the soil profile, whereas permeability refers to the rate at which water moves through the soil profile. The areal extent refers to the relative size of the total land area in which a soil series is mapped within the United States. Thus, a soil could have a large areal extent over its total range but have only a small extent in Louisiana.

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2Former Post-Doctoral Research Associate, now Senior Scientist, Lockheed-EMSCO, Las Vegas, Nevada.
Table 3 is a listing of soil series arranged by taxonomic class. The table is divided into soil order, suborder, great group, subgroup, and series. Family information (texture, mineralogy, and temperature regime) is listed in Table 1.

Table 4 lists soil series arranged by general soil area. Some of the major soil areas are further divided into subareas, and the soil series within each subarea are listed. Some soil series are found in more than one area, but each series is listed under the area in which it is most commonly found.

Soil Areas

The soils of Louisiana are grouped into six major soil areas based on landscape setting and parent material. Some major soil areas are divided into subareas as well. The major soil areas used in this guide largely follow those of Lytle (1968) and Lytle and Sturgis (1962), although this is an updated version. Descriptions of the soil areas are given below.

Coastal Plain

The Coastal Plain soil area is found in the northcentral and western regions of the state and in the northeastern part of the Florida parishes. Coastal Plain soils are on uplands and developed primarily in Tertiary age sediments, although Pleistocene age terrace soils along the Red River are included in the Coastal Plain area. These soils are not on the active Red River floodplain and do not fit into the other soil areas. Coastal Plain soils are usually in forest or pasture, although some row crops are grown. Coastal Plain soils are divided into eight subareas based on permeability and parent material:

1—Upland soils with rapidly permeable subsoils developed in sandy sediments
2—Upland soils with moderately permeable subsoils developed in sandy and loamy sediments
3—Upland soils with slowly permeable subsoils developed in loamy sediments
4—Upland soils with slowly permeable subsoils developed in acid clays
5—Upland soils with slowly permeable subsoils developed in alkaline clays (marl or chalk)
6—Upland soils with slowly permeable subsoils developed in iron-rich clayey marine sediments high in siderite
7—Upland soils with slowly permeable subsoils developed in glauconitic sediments
8—Pleistocene age terrace soils with slowly permeable subsoils developed in clayey alluvium
Flatwoods

The Flatwoods soil area occurs on the Intermediate and Prairie Terraces. Flatwoods soils are typically on nearly level or depressional areas and are usually poorly drained and have slow permeability. Vegetation on Flatwoods soils is usually forest or pasture.

Coastal Prairie

The Coastal Prairie soil area is in the southwestern part of the state. Coastal Prairie soils have slowly permeable subsoils, and the native vegetation was tall-grass prairie species. Rice and other row crops are not grown on these soils.

Loess Hills

Soils developed in loess (aeloian deposits with predominantly silt-sized particles) are found in bands adjacent to the western side of the Mississippi River floodplain and in a band adjacent to the eastern side of the Mississippi River floodplain extending into the Florida parishes. Loessial soils have developed under three conditions: thick loess deposits, thin deposits of loess over sediments, and mixtures of loess and underlying sediments. Loess deposits have been identified predominantly on Pleistocene age terraces but are also recognized in other upland areas. Forest, pasture, and row crops are the predominant vegetation. Detailed information on loess and loess-derived soils can be found in a guidebook by Miller et al. (1986).

Recent Alluvium

Four major alluvial soil areas are recognized: Mississippi River; Red River; Ouachita River (old Arkansas River channels included); and local streams, rivers, and bayous. Within each major alluvial area, soils are grouped according to whether they are found on the natural levees and floodplains or in backswamp areas. A recent publication on Mississippi River alluvial soils contains detailed information on these soils (Schumacher et al., 1988). Local stream alluvial soils are grouped into Coastal Plain and Flatwoods stream alluvial soils, Loess Hill stream alluvial soils, waterway spoil bank soils, and backswamp soils along local bayous.

Coastal Marsh

Coastal Marsh soils are grouped into the following categories primarily based on landscape setting and salinity levels. These six categories are:

1—Beach and beach ridge soils
2—Saltwater marsh soils
3—Brackish marsh soils
4—Freshwater marsh soils
5—Drained marsh and swamp soils
6—Soils on waterway flats
The distinction between saltwater and brackish marsh soils is often blurred because of the dynamic nature of the Coastal Marsh area. Saltwater inundation of brackish and even freshwater marshes as a result of land subsidence, coastal erosion, saltwater intrusion caused by manmade waterways, wind driven tides, and hurricanes is common.

References

Lytle, S. A. 1968. The morphological characteristics and relief relationships of representative soils in Louisiana. Louisiana Agricultural Experiment Station Bulletin No. 631.

Lytle, S. A. and M. B. Sturgis. 1962. General soil areas and associated soil series groups of Louisiana. Agronomy Department, Louisiana Agricultural Experiment Station.


Table 1. Alphabetical listing of the soil series of Louisiana and their taxonomic classification

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<td>Glossaquic Hapludalf, fine-silty, siliceous, thermic</td>
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<td>sil</td>
<td>Aeric Albaqualf, fine-silty, mixed, thermic</td>
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<td>Zeroria</td>
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<td>Aeric Ochraqualf, fine-loamy, siliceous, thermic</td>
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</table>

1 Phase represents texture of surface horizon

2 s: sand, fsl: fine sand, ls: loamy sand, ifs: loamy fine sand, sl: sandy loam, fsl: fine sandy loam, vfs1: very fine sandy loam, l: loam, sil: silt loam, sicl: silty clay loam, sic: silty clay, c: clay; m: muck, mc: mucky clay, mp: mucky peat, p: peat
Table 2. The soil area, landscape setting, parent material, drainage, permeability, and areal extent of soil series in Louisiana

<table>
<thead>
<tr>
<th>Soil Series</th>
<th>Soil Area</th>
<th>Landscape Setting</th>
<th>Parent Material</th>
<th>Drainage</th>
<th>Permeability</th>
<th>Areal Extent</th>
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<td>poor</td>
<td>slow</td>
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<td>very slow</td>
<td>large</td>
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<tr>
<td>Acy</td>
<td>Loess Hills</td>
<td>Pleistocene terraces</td>
<td>loess &amp; alluvium</td>
<td>poor</td>
<td>moderately slow</td>
<td>minor</td>
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<tr>
<td>Alaga</td>
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Table 2. (continued)

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<th>Permeability</th>
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<td>clayey alluvium</td>
<td>very poor</td>
<td>very slow</td>
<td>minor</td>
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<td>Zachary</td>
<td>Stream Alluvial (Loess H.)</td>
<td>floodplains</td>
<td>silty alluvium</td>
<td>poor</td>
<td>slow</td>
<td>minor</td>
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<tr>
<td>Zenobia</td>
<td>Stream Alluvial (C. Plain)</td>
<td>low stream terraces</td>
<td>clayey over loamy alluvium</td>
<td>poor</td>
<td>slow</td>
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1 OM: organic material
Table 3. Soil series of Louisiana arranged by taxonomic classification

<table>
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<tr>
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<th>Subgroup</th>
<th>Series</th>
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<tbody>
<tr>
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<td>Fluvaquents</td>
<td>Aeric</td>
<td>Arkabutla, Commerce, Convent, Mantachie, Newellton, Vacherie</td>
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<td>Thapto-Histic</td>
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<td>Bibb, Fausse, Gueydan, Mhoon, Placedo, Rita, Rosebloom, Waverly, Yorktown</td>
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<td>Vertic</td>
<td>Ijam, Sostien</td>
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<td></td>
<td>Hydraquents</td>
<td>Typic</td>
<td>Arat, Balize, Bancker, Barbary, Creole, Gentilly, Larose, Scatlake</td>
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<td>Psammaquents</td>
<td>Typic</td>
<td>Osier</td>
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<td>Udifluvents</td>
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<td>Psamments</td>
<td>Quartzipsamments</td>
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<td>-------------</td>
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<td>Aqualfs</td>
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<td>Corrigan, Crowley, Zachary</td>
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<td>Anacoco, Herty</td>
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<td>Aeric</td>
<td></td>
<td>Bursley</td>
</tr>
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<td></td>
<td></td>
<td>Typic</td>
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<td>Natraqualfs</td>
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<td>Glossic</td>
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<td>Bonn, Brimstone, Verdun</td>
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<td>Amagon, Forestdale, Ged, Kaplan, Midland, Rigolette</td>
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<td>Loreauville</td>
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<td>Vertic</td>
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<td>Baldwin, Mayhew, Natalbany</td>
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Table 3. (continued)

Order: Alfisols (continued)

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<td>Duralde</td>
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Table 3. (continued)

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<td>Rexor</td>
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<td>Ruple</td>
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<td>Glossic</td>
<td>Boykin, Briley, Rosalie</td>
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<td>Darco, Troup</td>
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<td>Benndale, McLaurin, Ruston, Shubuta, Smithdale</td>
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Order: Ultisols

25
Table 3. (continued)

Order: Inceptisols

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<td>Una</td>
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<td>Vertic</td>
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<td>Bruin</td>
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### Table 3. (continued)

**Order: Histosols**

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<td>Saprist</td>
<td>Medisaprist</td>
<td>Fluvaquentic</td>
<td>Kenner</td>
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<td>Terric</td>
<td>Allemands, Bellpass, Clovelly, Delcomb</td>
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<td>Lafitte, Maurepas, Timbalier</td>
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**Order: Mollisols**

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<td>Typic</td>
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<td>Haplaquolls</td>
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<td>Argiudolls</td>
<td>Aquic</td>
<td>Armistead</td>
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<td>Caspiana, Mer Rouge</td>
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<td>Buxin, Latanier, Moreland, Roebuck</td>
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**Order: Vertisols**

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<td>Aquentic</td>
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<td>Aquic Entic</td>
<td>Vaiden</td>
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<td>Entic</td>
<td>Morse</td>
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<td>Typic</td>
<td>Hollywood</td>
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Table 4. Soil series of Louisiana arranged by soil area

I. Coastal Plain Soils

A. Upland soils with rapidly permeable subsoils developed from sandy sediments

<table>
<thead>
<tr>
<th>Alaga</th>
<th>Bienville</th>
<th>Flo</th>
</tr>
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<tbody>
<tr>
<td>Betis</td>
<td>Rustis</td>
<td>Lakeland</td>
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</tbody>
</table>

B. Upland soils with moderately permeable subsoils developed from sandy and loamy sediments

<table>
<thead>
<tr>
<th>Attoyac</th>
<th>Darco</th>
<th>Ora</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barclay</td>
<td>Harleston</td>
<td>Pelham</td>
</tr>
<tr>
<td>Bassfield</td>
<td>Larue</td>
<td>Pheba</td>
</tr>
<tr>
<td>Benndale</td>
<td>Lucedale</td>
<td>Rigolette</td>
</tr>
<tr>
<td>Bernaldo</td>
<td>Mahan</td>
<td>Ruston</td>
</tr>
<tr>
<td>Boykin</td>
<td>Malbis</td>
<td>Savannah</td>
</tr>
<tr>
<td>Briley</td>
<td>McLaurin</td>
<td>Smithdale</td>
</tr>
<tr>
<td>Cahaba</td>
<td>Olla</td>
<td>Troup</td>
</tr>
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</table>

C. Upland soils with slowly permeable subsoils developed from loamy sediments

<table>
<thead>
<tr>
<th>Angie</th>
<th>Kirvin</th>
<th>Shubuta</th>
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<tbody>
<tr>
<td>Bowie</td>
<td>Kullit</td>
<td>Vaucluse</td>
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</table>

D. Upland soils with slowly permeable subsoils developed from acid clays

<table>
<thead>
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<th>Anacoco</th>
<th>Herty</th>
<th>Rayburn</th>
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</thead>
<tbody>
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<td>Bayoudan</td>
<td>Keithville</td>
<td>Sacul</td>
</tr>
<tr>
<td>Bellwood</td>
<td>Kisatchie</td>
<td>Sawyer</td>
</tr>
<tr>
<td>Boswell</td>
<td>Leaf</td>
<td>Susquehanna</td>
</tr>
<tr>
<td>Cadeville</td>
<td>Mayhew</td>
<td>Sweatman</td>
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<tr>
<td>Corrigan</td>
<td>Meth</td>
<td>Woodtell</td>
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<tr>
<td>Eastwood</td>
<td>Oula</td>
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</table>

E. Upland soils with slowly permeable subsoils developed from alkaline clays (marl or chalk)

<table>
<thead>
<tr>
<th>Hollywood</th>
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<th>Vaiden</th>
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<tbody>
<tr>
<td>Morse</td>
<td>Sumter</td>
<td>Watsonia</td>
</tr>
</tbody>
</table>

F. Upland soils with slowly permeable subsoils developed from iron-rich clayey marine sediments high in siderite

| Darbonne | Darley | Ruple |

G. Upland soils with slowly permeable subsoils developed from glauconitic sediments

| Nacogdoches | Natchitoches |

H. Pleistocene terrace soils with slowly permeable subsoils developed from clayey alluvium

<table>
<thead>
<tr>
<th>Forbing</th>
<th>Kolin</th>
<th>Shatta</th>
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<td>Gore</td>
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Table 4. (continued)

II. Flatwoods Soils

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<td>Beauregard</td>
<td>Matchulaville</td>
<td>Satsuma</td>
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<tr>
<td>Brimstone</td>
<td>Messer</td>
<td>Saucier</td>
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<tr>
<td>Caddo</td>
<td>Metcalf</td>
<td>Springfield</td>
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<td>Elysian</td>
<td>Mollicy</td>
<td>Stough</td>
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<td>Encrow</td>
<td>Muskogee</td>
<td>Waller</td>
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<td>Glenmora</td>
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<td>Wrightsville</td>
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III. Coastal Prairie Soils

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<td>Vidrine</td>
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<td>Kaplan</td>
<td>Midland</td>
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<td>Kinder</td>
<td>Morey</td>
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IV. Loess Hill Soils

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<td>Deerford</td>
<td>Gilbert</td>
<td>Tenot</td>
</tr>
<tr>
<td>Dexter</td>
<td>Grenada</td>
<td>Tillou</td>
</tr>
<tr>
<td>Dossman</td>
<td>Jeanerette</td>
<td>Toula</td>
</tr>
<tr>
<td>Duraide</td>
<td>Lexington</td>
<td>Verdun</td>
</tr>
<tr>
<td>Egypt</td>
<td></td>
<td>Vick</td>
</tr>
</tbody>
</table>

V. Alluvial Soils

A. Mississippi River Alluvial Soils

1. Natural Levee and Floodplain Soils

<table>
<thead>
<tr>
<th>Alligator</th>
<th>Dundee</th>
<th>Loreauville</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amazon</td>
<td>Forestdale</td>
<td>Mhoon</td>
</tr>
<tr>
<td>Baldwin</td>
<td>Galvez</td>
<td>Newellton</td>
</tr>
<tr>
<td>Bruin</td>
<td>Goldman</td>
<td>Robinsonville</td>
</tr>
<tr>
<td>Commerce</td>
<td>Goodwill</td>
<td>Sharkey</td>
</tr>
<tr>
<td>Convent</td>
<td>Harahan</td>
<td>Tensas</td>
</tr>
<tr>
<td>Crevasse</td>
<td>Iberia</td>
<td>Tunica</td>
</tr>
<tr>
<td>Dubbs</td>
<td>Idee</td>
<td>Vacherie</td>
</tr>
</tbody>
</table>

2. Backswamp Soils

<table>
<thead>
<tr>
<th>Barbary</th>
<th>Fausse</th>
</tr>
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</table>
Table 4. (continued)

V. Alluvial Soils (continued)

B. Red River Alluvial Soils

1. Natural Levee and Floodplain Soils

<table>
<thead>
<tr>
<th></th>
<th>Gallion</th>
<th>Latanier</th>
<th>Norwood</th>
<th>Roebuck</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armistead</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buxin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caspiana</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coushatta</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

2. Backswamp Soils

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lebeau</td>
<td>Moreland</td>
<td></td>
</tr>
</tbody>
</table>

C. Ouachita River Alluvial Soils

1. Natural Levee and Floodplain Soils

<table>
<thead>
<tr>
<th></th>
<th>Rilla</th>
<th>Sterlington</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hebert</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mer Rouge</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Backswamp Soils

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Perry</td>
<td></td>
<td>Portland</td>
</tr>
</tbody>
</table>

D. Stream Alluvial Soils

1. Coastal Plain and Flatwoods Stream Alluvial Soils

<table>
<thead>
<tr>
<th></th>
<th>Hannahatchee</th>
<th>Ocklockonee</th>
<th>Osier</th>
<th>Ouachita</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arkabutla</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basile</td>
<td>Iuka</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bibb</td>
<td>Jena</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chastain</td>
<td>Litro</td>
<td></td>
<td></td>
<td>Rosebloom</td>
</tr>
<tr>
<td>Dela</td>
<td>Lotus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Groom</td>
<td>Mantachie</td>
<td></td>
<td></td>
<td>Urbo</td>
</tr>
<tr>
<td>Guyton</td>
<td>Natalbany</td>
<td></td>
<td></td>
<td>Zenoria</td>
</tr>
<tr>
<td>Haggerty</td>
<td>Nugent</td>
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2. Loess Hill Stream Alluvial Soils

<table>
<thead>
<tr>
<th></th>
<th>Falaya</th>
<th>Waverly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bursley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cascilla</td>
<td>Falkner</td>
<td>Zachary</td>
</tr>
<tr>
<td>Collins</td>
<td>Vicksburg</td>
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</table>

3. Waterway Spoil Bank Soils

<table>
<thead>
<tr>
<th></th>
<th>Sostien</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cocodrie</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Backswamp Soils

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yorktown</td>
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</table>
Table 4. (continued)

VI. Coastal Marsh Soils

A. Beach and Beach Ridge Soils

<table>
<thead>
<tr>
<th>Cheniere</th>
<th>Hackberry</th>
<th>Peveto</th>
</tr>
</thead>
<tbody>
<tr>
<td>Felicity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B. Saltwater Marsh Soils

<table>
<thead>
<tr>
<th>Bellpass</th>
<th>Placedo</th>
<th>Timbalier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lafitte</td>
<td>Scatlake</td>
<td></td>
</tr>
</tbody>
</table>

C. Brackish Marsh Soils

<table>
<thead>
<tr>
<th>Andry</th>
<th>Creole</th>
<th>Mermentau</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bancker</td>
<td>Delcomb</td>
<td></td>
</tr>
<tr>
<td>Clovelly</td>
<td>Gentilly</td>
<td></td>
</tr>
</tbody>
</table>

D. Freshwater Marsh Soils

<table>
<thead>
<tr>
<th>Allemands</th>
<th>Carlin</th>
<th>Kenner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arat</td>
<td>Ged</td>
<td>Larose</td>
</tr>
<tr>
<td>Balize</td>
<td>Gueydan</td>
<td>Maurepas</td>
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</table>

E. Drained Marshes and Swamps

<table>
<thead>
<tr>
<th>Rita</th>
<th>Westwego</th>
<th></th>
</tr>
</thead>
</table>

F. Waterway Flats

<table>
<thead>
<tr>
<th>Ijam</th>
<th></th>
<th></th>
</tr>
</thead>
</table>