



United States  
Department of  
Agriculture



Natural  
Resources  
Conservation  
Service

In cooperation with  
Kentucky Natural  
Resources and  
Environmental Protection  
Cabinet and Kentucky  
Agricultural Experiment  
Station

# Soil Survey of Jefferson County, Kentucky



# How To Use This Soil Survey

## General Soil Map

The general soil map, which is a color map, shows the survey area divided into groups of associated soils called general soil map units. This map is useful in planning the use and management of large areas.

To find information about your area of interest, locate that area on the map, identify the name of the map unit in the area on the color-coded map legend, then refer to the section **General Soil Map Units** for a general description of the soils in your area.

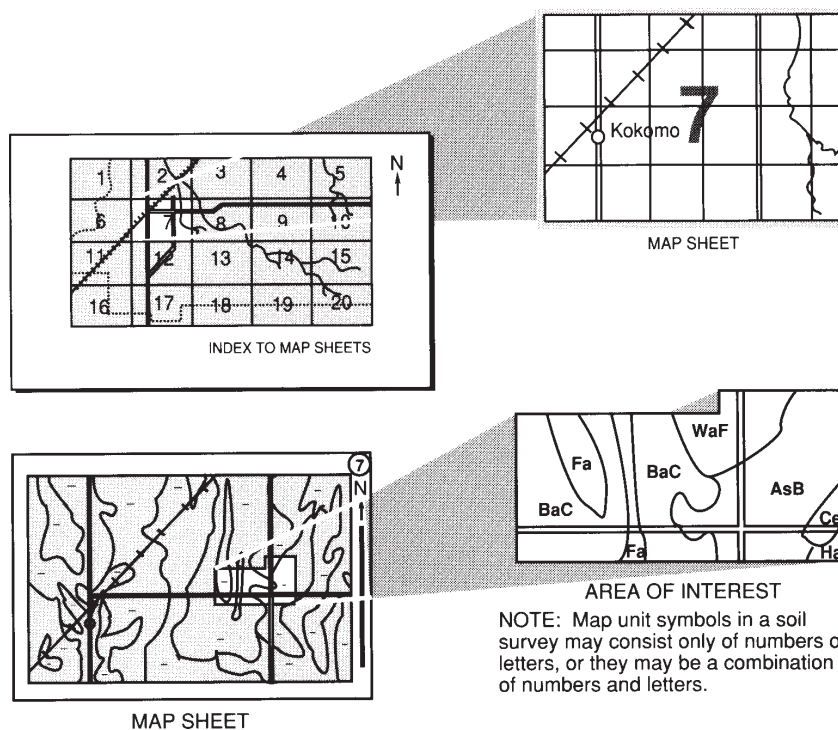
## Detailed Soil Maps

The detailed soil maps can be useful in planning the use and management of small areas.

To find information about your area of interest, locate that area on the **Index to Map Sheets**. Note the number of the map sheet and go to that sheet.

Locate your area of interest on the map sheet. Note the map unit symbols that are in that area. Go to the **Contents**, which lists the map units by symbol and name and shows the page where each map unit is described.

The **Contents** shows which table has data on a specific land use for each detailed soil map unit. Also see the **Contents** for sections of this publication that may address your specific needs.



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This soil survey is a publication of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (formerly the Soil Conservation Service) has leadership for the Federal part of the National Cooperative Soil Survey.

Major fieldwork for this soil survey was completed in 2005. Soil names and descriptions were approved in 2005. Unless otherwise indicated, statements in this publication refer to conditions in the survey area in 2005. This survey was made cooperatively by the Natural Resources Conservation Service, the Kentucky Natural Resources and Environmental Protection Cabinet, and the Kentucky Agricultural Experiment Station. The survey is part of the technical assistance furnished to the Jefferson County Conservation District.

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Issued 2007



# Foreword

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This soil survey contains information that affects land use planning in this survey area. It contains predictions of soil behavior for selected land uses. The survey also highlights soil limitations, improvements needed to overcome the limitations, and the impact of selected land uses on the environment.

This soil survey is designed for many different users. Farmers, foresters, and agronomists can use it to evaluate the potential of the soil and the management needed for maximum food and fiber production. Planners, community officials, engineers, developers, builders, and home buyers can use the survey to plan land use, select sites for construction, and identify special practices needed to ensure proper performance. Conservationists, teachers, students, and specialists in recreation, wildlife management, waste disposal, and pollution control can use the survey to help them understand, protect, and enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. The information in this report is intended to identify soil properties that are used in making various land use or land treatment decisions. Statements made in this report are intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are shallow to bedrock. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

These and many other soil properties that affect land use are described in this soil survey. Broad areas of soils are shown on the general soil map. The location of each soil is shown on the detailed soil maps. Each soil in the survey area is described. Information on specific uses is given for each soil. Help in using this publication and additional information are available at the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.

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# Soil Survey of Jefferson County, Kentucky

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Maps compiled by Robert A. Eigel, John E. Graham, and Steven J. Blanford, Natural Resources Conservation Service

Soil correlation by William H. Craddock, Natural Resources Conservation Service

United States Department of Agriculture, Natural Resources Conservation Service, in cooperation with  
Kentucky Natural Resources and Environmental Protection Cabinet and Kentucky Agricultural Experiment Station

JEFFERSON COUNTY is in north-central Kentucky along the Ohio River (fig. 1). The county has a land area of 244,500 acres, or about 382 square miles, and a water area of 10,600 acres. The Ohio River makes up the northwestern boundary of the county. The remainder of the county is bordered by Bullitt, Oldham, Spencer, and Shelby Counties. The county is in the Outer Bluegrass and Knobs Physiographic Regions.

This soil survey updates the survey of Jefferson County, Kentucky published in 1966 (48). It provides a modern digital soil survey on (aerial) orthophotography and contains updated interpretative information.

Jefferson County was formed in 1780 from part of the original Kentucky County. The county is named for Thomas Jefferson, who was governor of Virginia at the time.

## General Nature of the County

This section provides general information about Jefferson County. It discusses population and farming, topography and drainage, and climate.

## Population and Farming

Louisville is the largest city in both Jefferson County and Kentucky (13, 26, 29, 51). In 2000, Jefferson County had a population of 693,604. City and County government merged in 2003 and became the Louisville Metro Government. Louisville and Jefferson County are dominantly urban. Urban areas include residential areas, industrial areas, including service industries, and corporate industries. Although agriculture is not a principal occupation, in 2002 there were 526 farms in the county and the average farm size was 78 acres (23, 27, 41). A total of 11,175 acres, or about 5 percent of the acreage in the county, was used as harvested cropland. About 8,400 acres of this

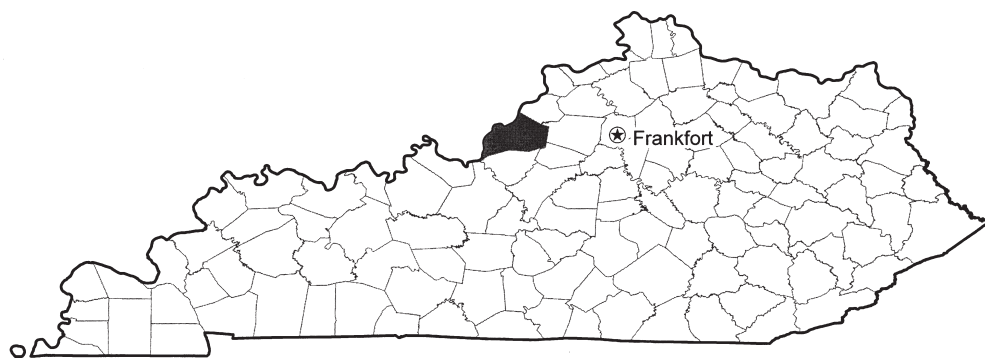


Figure 1.—Location of Jefferson County in Kentucky.

cropland, or 75 percent, was used for the production of alfalfa and hay. Principal crops grown in the county are corn, soybeans, and wheat. Corn is grown for both silage and grain, and wheat is grown mostly as a cover crop. About 10 percent of the county is in pasture, and 12 percent is in forestland. Livestock in the county include beef and dairy cattle, hogs, sheep, and goats. The Jefferson Memorial Forest makes up approximately 6,191 acres in the southwestern part of Jefferson County.

## Topography and Drainage

Jefferson County has a diverse topography which includes parts of two physiographic regions: the Outer Bluegrass and the Knobs. The Outer Bluegrass Physiographic Region is the larger of the two and covers approximately 95 percent of the county.

The Outer Bluegrass Physiographic Region is characterized by broad, gently sloping ridgetops, moderately sloping to steep side slopes, and moderately wide to narrow flood plains. The gently sloping to moderately steep terraces and ridgetops are used mostly for urban and commercial development. The Knobs Physiographic Region, at the south-central boundary of the county, is characterized by a narrow band of conical shaped hills (knobs) and long, moderately wide ridgetops that break to very steep side slopes which are separated by narrow to moderately wide valleys. The gently sloping to moderately steep ridgetops are used for urban development, hay, pasture, and a few row crops. The side slopes are mostly used as woodland.

The western and central parts of Jefferson County, which are part of the Outer Bluegrass Physiographic Region, are drained by Harrods, Goose, Beargrass, Fern, Mill, and Pond Creeks. These creeks drain into the Ohio River. The south-central part of Jefferson County, which is part of the Knobs Physiographic Region, drains north to the Ohio River by Pond Creek and south to the Salt River, in Bullitt County, by Brier Creek. The eastern part of Jefferson County, which is part of the Outer Bluegrass Physiographic Region, drains south to the Salt River, in Bullitt County by Floyds Fork.

The elevation in Jefferson County ranges from about 382 feet to more than 900 feet in the southern part of the county.

For more detailed information, see “Physiography and Geology,” which is included in the “Formation of the Soils” section.

## Climate

Table 1 gives data on temperature and precipitation for the survey area as recorded at Louisville, Kentucky, in the period 1961 to 1990. Table 2 shows probable dates of the



first freeze in fall and the last freeze in spring. Table 3 provides data on the length of the growing season.

In winter, the average temperature is 34.8 degrees F and the average daily minimum temperature is 26.1 degrees. The lowest temperature on record, which occurred at Louisville on January 19, 1994, was -22 degrees. In summer, the average temperature is 75.9 degrees and the average daily maximum temperature is 85.9 degrees. The highest temperature, which occurred at Louisville on July 20, 1999, was 106 degrees.

Growing degree days are shown in table 1. They are equivalent to "heat units." During the month, growing degree days accumulate by the amount that the average temperature each day exceeds a base temperature (40 degrees F). The normal monthly accumulation is used to schedule single or successive plantings of a crop between the last freeze in spring and the first freeze in fall.

The average annual total precipitation is 44.41 inches. Of this, 26.2 inches, or about 59 percent, usually falls in April through October. The growing season for most crops falls within this period. The heaviest 1-day rainfall during the period of record was 7.22 inches, recorded at Louisville on March 1, 1997. Thunderstorms occur on about 45 days each year, and most occur between April and August.

The average seasonal snowfall is 17.4 inches. The greatest snow depth at any one time during the period of record was 19 inches, recorded on January 20, 1978. On an average, 15 days per year have at least 1 inch of snow on the ground. The heaviest 1-day snowfall on record was 15.5 inches, recorded on January 17, 1994.

The average relative humidity in mid-afternoon is about 56 percent. Humidity is higher at night, and the average at dawn is about 82 percent. The sun shines 66 percent of the time possible in summer and 43 percent in winter. The prevailing wind is from the south in most months; it is from the northwest in February and March. Average windspeed is highest, around 10 miles per hour, from January to April.

## **How This Survey Was Made**

This survey was made to provide information about the soils and miscellaneous areas in the survey area. The information includes a description of the soils and miscellaneous areas and their location and a discussion of their suitability, limitations, and management for specified uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They dug many holes to study the soil profile, which is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

The soils and miscellaneous areas in the survey area are in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept or model of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an

understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries (50).

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research (44, 50).

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs (42). Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# General Soil Map Units

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The general soil map shows broad areas that have a distinctive pattern of soils, relief, and drainage. Each map unit on the general soil map is a unique natural landscape. Typically, it consists of one or more major soils or miscellaneous areas and some minor soils or miscellaneous areas. It is named for the major soils or miscellaneous areas. The components of one map unit can occur in another but in a different pattern. For the general soil map units in this survey, the urban map units were not used to determine the map unit composition.

The general soil map can be used to compare the suitability of large areas for general land uses. Areas of suitable soils can be identified on the map. Likewise, areas where the soils are not suitable can be identified.

Because of its small scale, the map is not suitable for planning the management of a farm or field or for selecting a site for a road or building or other structures. The soils in any one map unit differ from place to place in slope, depth, drainage, and other characteristics that affect management.

## 1. Ohio River Floodplains: Huntington-Melvin-Combs

*Very deep, well drained to poorly drained, nearly level to moderately steep, sandy, loamy, and silty soils*

### **Setting**

*Location in the survey area:* Areas adjacent to the Ohio River

*Landform:* Floodplain in the Ohio River valley

*Slope range:* 0 to 25 percent

### **Composition**

*Percent of map unit in the survey area:* 3

*Major soils:* Huntington—13 percent; Melvin—9 percent; Combs—6 percent

*Minor soils:* Wheeling, Newark, and other soils of minor extent—72 percent

### **Land Use**

*Major uses:* Parks, hay, pasture, and woodland

## 2. Ohio River Terraces: Wheeling-Scioto-ville-Otwood

*Very deep, well drained and moderately well drained, nearly level to moderately steep, sandy, loamy, and silty soils*

### **Setting**

*Location in the survey area:* Areas adjacent to the Ohio River

*Landform:* Terraces in the Ohio River valley

*Slope range:* 0 to 25 percent

***Composition***

*Percent of map unit in the survey area: 17*

*Major soils: Wheeling—19 percent; Sciotoville—14 percent; Otwood—10 percent*

*Minor soils: Alford, Newark, and other soils of minor extent—67 percent*

***Land Use***

*Major uses: Urban land, parks, hay, pasture, crops, and woodland*

**3. Floodplains and Terraces on Perennial and Intermittent Streams: Nolin-Otwood-Elk**

*Very deep, well drained to poorly drained, nearly level to moderately steep, sandy and loamy soils*

***Setting***

*Location in the survey area: Areas adjacent to intermittent streams*

*Landform: Floodplains and terraces on intermittent streams*

*Slope range: 0 to 25 percent*

***Composition***

*Percent of map unit in the survey area: 8*

*Major soils: Nolin—25 percent; Otwood—12 percent; Elk—8 percent*

*Minor soils: Lawrence, Newark, and other soils of minor extent—55 percent*

***Land Use***

*Major uses: Parks, hay, pasture, crops, woodland, and urban land*

**4. Lacustrine Deposits: Robertsville-Zipp-Melvin**

*Very deep, poorly drained and very poorly drained, nearly level to gently sloping, silty and clayey soils*

***Setting***

*Location in the survey area: Fairdale, Lynnview, and Okolona areas*

*Landform: Lacustrine deposits*

*Slope range: 0 to 8 percent*

***Composition***

*Percent of map unit in the survey area: 6*

*Major soils: Robertsville—21 percent; Zipp—13 percent; Melvin—11 percent*

*Minor soils: Lawrence, Newark, and other soils of minor extent—55 percent*

***Land Use***

*Major uses: Hay, pasture, woodland, idle land, and urban land*

## **5. The Knobs: Carpenter-Tilsit-Gilpin**

*Moderately deep to very deep, well drained and moderately well drained, gently sloping to very steep, loamy and silty soils*

### ***Setting***

*Location in the survey area:* Jefferson County Memorial Forest

*Landform:* The Knobs

*Slope range:* 2 to 60 percent

### ***Composition***

*Percent of map unit in the survey area:* 9

*Major soils:* Carpenter—42 percent; Tilsit—22 percent; Gilpin—8 percent

*Minor soils:* Alford, Weikert, and other soils of minor extent—28 percent

### ***Land Use***

*Major uses:* Parks, woodland, and urban land

## **6. Limestone and Dolomite Uplands: Crider-Caneyville-Nicholson**

*Moderately deep to very deep, well drained and moderately well drained, nearly level to very steep, silty and clayey soils*

### ***Setting***

*Location in the survey area:* Central portion of the county

*Landform:* Uplands

*Slope range:* 0 to 60 percent

### ***Composition***

*Percent of map unit in the survey area:* 39

*Major soils:* Crider—29 percent; Caneyville—10 percent; Nicholson—10 percent

*Minor soils:* Beasley, Lawrence, and other soils of minor extent—51 percent

### ***Land Use***

*Major uses:* Urban land, parks, hay, pasture, crops, and woodland

## **7. Limestone, Siltstone, and Shale Uplands: Shrouts-Beasley-Faywood**

*Moderately deep and deep, well drained, gently sloping to very steep, clayey soils*

### ***Setting***

*Location in the survey area:* Eastern portion of the county

*Landform:* Uplands

*Slope range:* 2 to 50 percent

### ***Composition***

*Percent of map unit in the survey area:* 18

## Soil Survey of Jefferson County, Kentucky

*Major soils:* Shrouts—34 percent; Beasley—27 percent; Faywood—15 percent

*Minor soils:* Sandview, Nicholson, and other soils of minor extent—24 percent

### ***Land Use***

*Major uses:* Urban land, parks, hay, pasture, crops, and woodland

# Detailed Soil Map Units

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The map units delineated on the detailed soil maps represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this section, along with the maps and tables, can be used to determine the potential suitability of a map unit. They also can be used to plan the management needed for those uses.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. The contrasting components are mentioned in the map unit descriptions. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives the principal hazards and limitations to be considered in planning for specific uses.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase

commonly indicates a feature that affects use or management. For example, Faywood silt loam, 6 to 12 percent slopes, is a phase of the Faywood series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes. A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Faywood-Shrouds-Beasley complex, 25 to 50 percent slopes, is an example.

This survey includes *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Pits, quarries, is an example.

Table 4 gives the acreage and proportionate extent of each map unit. Other tables give properties of the soils and the limitations, capabilities, and potentials for many uses. The Glossary defines many of the terms used in describing the soils or miscellaneous areas.

## **AfB—Alford silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform*: Ridge on upland

*Landform position (two-dimensional)*: Summit

*Landform position (three-dimensional)*: Interfluve

*Down-slope shape*: Convex

*Across-slope shape*: Linear

*Parent material*: Thick, fine-silty loess over silty residuum weathered from siltstone and shale of the Muldraugh, Holtsclaw, Nancy, Kenwood, and New Providence Members of the Borden Formation of the Mississippian System

*Elevation*: 400 to 900 feet

### ***Map Unit Composition***

Alford and similar soils: 90 percent

Contrasting inclusions:

Tilsit soils—5 percent

Gilpin soils—3 percent

Carpenter soils—2 percent

### ***Soil Properties and Qualities***

*Depth class*: Very deep

*Drainage class*: Well drained

*Organic matter content in the surface layer*: 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat)*: Moderately high

*Available water capacity*: High (about 11.1 inches to a depth of 60 inches)

*Depth to restrictive features*: More than 80 inches

*Potential for surface runoff*: Low

*Depth to the top of the seasonal high water table*: More than 6 feet

*Flooding*: None

*Ponding*: None

*Surface layer texture*: Silt loam

*Calcium carbonate maximum*: 0 percent

*Shrink-swell potential*: Moderate

### ***Typical Profile***

Surface layer—0 to 7 inches; silt loam



Subsoil—7 to 55 inches; silt loam  
Subsoil—55 to 84 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the “Use and Management” section for more information.*

## **AfC—Alford silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thick, fine-silty loess over silty residuum weathered from siltstone and shale of the Muldraugh, Holtsclaw, Nancy, Kenwood, and New Providence Members of the Borden Formation of the Mississippian System

*Elevation:* 400 to 900 feet

### ***Map Unit Composition***

Alford and similar soils: 90 percent

## Soil Survey of Jefferson County, Kentucky

### Contrasting inclusions:

- Tilsit soils—5 percent
- Gilpin soils—3 percent
- Carpenter soils—2 percent

### **Soil Properties and Qualities**

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 11.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 55 inches; silt loam

Subsoil—55 to 84 inches; silt loam

### **Interpretive Groups**

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### **Use and Management Considerations**

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.

- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the “Use and Management” section for more information.*

## **AfD—Alford silt loam, 12 to 25 percent slopes**

### ***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thick, fine-silty loess over silty residuum weathered from siltstone and shale of the Muldraugh, Holtsclaw, Nancy, Kenwood, and New Providence Members of the Borden Formation of the Mississippian System

*Elevation:* 400 to 900 feet

### ***Map Unit Composition***

Alford and similar soils: 85 percent

Contrasting inclusions:

    Carpenter soils—7 percent

    Gilpin soils—6 percent

    Tilsit soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 11.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 55 inches; silt loam

Subsoil—55 to 84 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 4e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Because of steep slopes, the rate of surface runoff, the erosion hazard, and the amount nutrient loss are increased and the use of farm machinery is restricted.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operation conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **AfF—Alford silt loam, 25 to 50 percent slopes**

### ***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thick, fine-silty loess over silty residuum weathered from siltstone and shale of the Muldraugh, Holtsclaw, Nancy, Kenwood, and New Providence Members of the Borden Formation of the Mississippian System

*Elevation:* 400 to 900 feet

### ***Map Unit Composition***

Alford and similar soils: 80 percent

Contrasting inclusions:

    Carpenter soils—9 percent

    Gilpin soils—9 percent

    Tilsit soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 11.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* High

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 55 inches; silt loam

Subsoil—55 to 84 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 7e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Woodland

#### **Cropland**

- This soil is unsuited to cropland.

#### **Pasture and hayland**

- This soil is unsuited to pasture and hayland.

#### **Woodland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operation conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **BeB—Beasley silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Summit

## Soil Survey of Jefferson County, Kentucky

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

### **Map Unit Composition**

Beasley and similar soils: 80 percent

Contrasting inclusions:

Nicholson soils—8 percent

Faywood soils—7 percent

Shrouds soils—5 percent

### **Soil Properties and Qualities**

*Depth class:* Deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Moderate (about 7.6 inches to a depth of 48 inches)

*Depth to restrictive features:* 40 to 60 inches to paralithic bedrock

*Potential for surface runoff:* High

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 8 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 48 inches; silty clay

Paralithic bedrock—48 to 58 inches; weathered shale bedrock

### **Interpretive Groups**

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### **Use and Management Considerations**

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

## **BeC—Beasley silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Beasley and similar soils: 80 percent

Contrasting inclusions:

Nicholson soils—8 percent

Faywood soils—7 percent

Shrouds soils—5 percent

### ***Soil Properties and Qualities***

*Depth class:* Deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Moderate (about 7.6 inches to a depth of 48 inches)

*Depth to restrictive features:* 40 to 60 inches to paralithic bedrock

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 8 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 48 inches; silty clay

Paralithic bedrock—48 to 58 inches; weathered shale bedrock

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the “Use and Management” section for more information.*

## **BeD—Beasley silt loam, 12 to 25 percent slopes**

### ***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex



*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Beasley and similar soils: 80 percent

Contrasting inclusions:

Faywood soils—10 percent

Shrouts soils—8 percent

Nicholson soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Moderate (about 7.6 inches to a depth of 48 inches)

*Depth to restrictive features:* 40 to 60 inches to paralithic bedrock

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 8 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 48 inches; silty clay

Paralithic bedrock—48 to 58 inches; weathered shale bedrock

### ***Interpretive Groups***

*Land capability classification:* 4e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Poorly suited

*Management concerns and considerations:*

- Because of steep slopes, the rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased and the use of farm machinery is restricted.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

**Bo—Boonewood silt loam, occasionally flooded**

***Setting***

*Landform:* Flood plain in valley

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over limestone of the Ordovician System

*Elevation:* 380 to 800 feet

***Map Unit Composition***

Boonewood and similar soils: 90 percent

Contrasting inclusions:

Nolin soils—4 percent

Lindside soils—3 percent

Newark soils—3 percent

***Soil Properties and Qualities***

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 3.0 to 5.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Low (about 3.4 inches to a depth of 30 inches)

*Depth to restrictive features:* 20 to 40 inches to lithic bedrock

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.2 to 2.0 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 23 inches; silt loam

Substratum—23 to 30 inches; silt loam

Lithic bedrock—30 to 34 inches; unweathered limestone bedrock

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The moderate depth to bedrock restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with planting and harvesting.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.
- The moderate depth to bedrock restricts the rooting depth.

#### **Woodland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The moderate depth to bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **CaB2—Caneyville silt loam, 2 to 6 percent slopes, eroded, very rocky**

### ***Setting***

*Landform:* Ridge on karst upland

*Landform position (two-dimensional):* Summit

## Soil Survey of Jefferson County, Kentucky

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from limestone of the Harrodsburg, Sellersburg, Jeffersonville, and Louisville Formations of the Mississippian, Devonian, and Silurian Systems

*Elevation:* 500 to 900 feet

### **Map Unit Composition**

Caneyville and similar soils: 80 percent

Contrasting inclusions:

Crider soils—7 percent

Faywood soils—6 percent

Beasley soils—4 percent

Rock outcrop—3 percent

### **Soil Properties and Qualities**

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 4.6 inches to a depth of 30 inches)

*Depth to restrictive features:* 20 to 40 inches to lithic bedrock

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 30 inches; silty clay

Lithic bedrock—30 to 34 inches; unweathered limestone bedrock

### **Interpretive Groups**

*Land capability classification:* 2e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### **Use and Management Considerations**

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- Erosion has removed part of the surface soil, and the remaining surface soil is less productive and more difficult to manage.
- Rock outcrops may limit machinery operations.
- The moderate depth to bedrock restricts the rooting depth.

- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The moderate depth to bedrock restricts the rooting depth.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.
- Rock outcrops may limit machinery operations.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

### **CaC2—Caneyville silt loam, 6 to 12 percent slopes, eroded, very rocky**

#### ***Setting***

*Landform:* Ridge on karst upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from limestone of the Harrodsburg, Sellersburg, Jeffersonville, and Louisville Formations of the Mississippian, Devonian, and Silurian Systems

*Elevation:* 500 to 900 feet

#### ***Map Unit Composition***

Caneyville and similar soils: 80 percent

Contrasting inclusions:

Crider soils—7 percent

Faywood soils—6 percent

Beasley soils—4 percent

Rock outcrop—3 percent

#### ***Soil Properties and Qualities***

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 4.6 inches to a depth of 30 inches)

*Depth to restrictive features:* 20 to 40 inches to lithic bedrock

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 30 inches; silty clay

Lithic bedrock—30 to 34 inches; unweathered limestone bedrock

### **Interpretive Groups**

*Land capability classification:* 3e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### **Use and Management Considerations**

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Poorly suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- Erosion has removed part of the surface soil, and the remaining surface soil is less productive and more difficult to manage.
- Rock outcrops may limit machinery operations.
- The moderate depth to bedrock restricts the rooting depth.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The moderate depth to bedrock restricts the rooting depth.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.
- Rock outcrops may limit machinery operations.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

**CaD2—Caneyville silt loam, 12 to 25 percent slopes,  
eroded, very rocky**

***Setting***

*Landform:* Hill on karst upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from limestone of the Harrodsburg, Sellersburg, Jeffersonville, and Louisville Formations of the Mississippian, Devonian, and Silurian Systems

*Elevation:* 500 to 900 feet

***Map Unit Composition***

Caneyville and similar soils: 80 percent

Contrasting inclusions:

Beasley soils—7 percent

Faywood soils—6 percent

Rock outcrop—4 percent

Shrouds soils—3 percent

***Soil Properties and Qualities***

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 4.6 inches to a depth of 30 inches)

*Depth to restrictive features:* 20 to 40 inches to lithic bedrock

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

***Typical Profile***

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 30 inches; silty clay

Lithic bedrock—30 to 34 inches; unweathered limestone bedrock

### ***Interpretive Groups***

*Land capability classification:* 6e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Pasture, woodland, and a few small areas of hayland

#### **Cropland**

- This soil is unsuited to cropland.

#### **Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.
- The depth to bedrock restricts the rooting depth.
- Rock outcrops may limit machinery operations.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- Because of the slope, the use of equipment for preparing sites for planting and seeding is restricted.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- Bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

## **CcF2—Caneyville-Rock outcrop complex, 12 to 60 percent slopes, eroded**

### ***Setting***

*Landform:* Caneyville—hill on karst upland; Rock outcrop—hill on upland

*Landform position (two-dimensional):* Caneyville—backslope; Rock outcrop—none assigned

*Landform position (three-dimensional):* Caneyville—side slope; Rock outcrop—free face

*Down-slope shape:* Caneyville—convex; Rock outcrop—none assigned

*Across-slope shape:* Caneyville—linear; Rock outcrop—none assigned

*Parent material:* Caneyville—clayey residuum weathered from limestone of the



## Soil Survey of Jefferson County, Kentucky

Harrodsburg, Sellersburg, Jeffersonville, and Louisville Formations of the Mississippian, Devonian, and Silurian Systems; Rock outcrop—limestone  
*Elevation:* 500 to 900 feet

### ***Map Unit Composition***

Caneyville and similar soils: 70 percent

Rock outcrop: 20 percent

Contrasting inclusions:

Crider soils—4 percent

Beasley soils—3 percent

Faywood soils—3 percent

### ***Properties and Qualities of the Caneyville Soil***

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 4.6 inches to a depth of 30 inches)

*Depth to restrictive features:* 20 to 40 inches to lithic bedrock

*Potential for surface runoff:* High

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile of the Caneyville Soil***

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 30 inches; silty clay

Lithic bedrock—30 to 34 inches; unweathered limestone bedrock

### ***Interpretive Groups***

*Land capability classification:* Caneyville—7e; Rock outcrop—8s

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Pasture and woodland

#### **Cropland**

- This map unit is unsuited to cropland.

#### **Pasture and hayland**

- This map unit is unsuited to pasture and hayland.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.

- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- Bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

## **CeF—Carpenter silt loam, 20 to 50 percent slopes**

### ***Setting***

*Landform:* Knob on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Fine-loamy colluvium derived from shale and siltstone over loamy residuum weathered from shale and siltstone of the Muldraugh and Holtsclaw Members of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

### ***Map Unit Composition***

Carpenter and similar soils: 70 percent

Contrasting inclusions:

Gilpin soils—8 percent

Tilsit soils—8 percent

Weikert soils—8 percent

Beasley soils—6 percent

### ***Soil Properties and Qualities***

*Depth class:* Deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Moderate (about 7.0 inches to a depth of 45 inches)

*Depth to restrictive features:* 40 to 60 inches to paralithic bedrock

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 38 inches; channery silty clay loam

Subsoil—38 to 45 inches; very channery silty clay loam

Paralithic bedrock—45 to 68 inches; weathered shale and siltstone bedrock

### ***Interpretive Groups***

*Land capability classification:* 7e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Woodland

#### **Cropland**

- This soil is unsuited to cropland.

#### **Pasture and hayland**

- This soil is unsuited to pasture and hayland.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **Cm—Cemeteries**

### ***Map Unit Composition***

Cemeteries: 100 percent

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

**Land Uses:** Cemeteries

## **CnF—Chagrin-Nelse-Wheeling complex, 2 to 75 percent slopes, frequently flooded**

### ***Setting***

*Landform:* Chagrin and Nelse—flood plain in river valley; Wheeling—stream terrace in river valley

*Landform position (three-dimensional):* Chagrin and Nelse—none assigned; Wheeling—tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

## Soil Survey of Jefferson County, Kentucky

*Parent material:* Chagrin and Wheeling—mixed, fine-loamy alluvium of the Quaternary System; Nelse—mixed, coarse-loamy alluvium of the Quaternary System  
*Elevation:* 380 to 500 feet

### **Map Unit Composition**

Chagrin and similar soils: 35 percent  
Nelse and similar soils: 35 percent  
Wheeling and similar soils: 10 percent  
Contrasting inclusions:  
    Combs soils—8 percent  
    Huntington soils—6 percent  
    Caneyville soils—3 percent  
    Faywood soils—3 percent

### **Soil Properties and Qualities**

*Depth class:* Very deep  
*Drainage class:* Well drained  
*Organic matter content in the surface layer:* Chagrin—2.0 to 4.0 percent; Nelse—2.0 to 10.0 percent; Wheeling—1.0 to 3.0 percent  
*Saturated hydraulic conductivity (Ksat):* Chagrin—moderately high; Nelse and Wheeling—high  
*Available water capacity:* Chagrin—high (about 10.0 inches to a depth of 60 inches); Nelse—high (about 9.1 inches to a depth of 60 inches); Wheeling—moderate (about 6.7 inches to a depth of 60 inches)  
*Depth to restrictive features:* More than 80 inches  
*Potential for surface runoff:* Chagrin—medium; Nelse—low; Wheeling—high  
*Depth to the top of the seasonal high water table:* More than 6 feet  
*Flooding duration:* Brief  
*Ponding:* None  
*Surface layer texture:* Chagrin and Wheeling—loam; Nelse—fine sandy loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Low

### **Typical Profile**

#### **Chagrin**

Surface layer—0 to 10 inches; loam  
Subsoil—10 to 39 inches; silt loam  
Substratum—39 to 90 inches; silt loam

#### **Nelse**

Surface layer—0 to 12 inches; stratified loam to fine sandy loam  
Substratum—12 to 100 inches; stratified loam to sandy loam

#### **Wheeling**

Surface layer—0 to 6 inches; loam  
Subsoil—6 to 49 inches; loam  
Substratum—49 to 85 inches; stratified sandy loam

### **Interpretive Groups**

*Land capability classification:* Chagrin and Nelse—4e; Wheeling—7e  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Chagrin and Nelse—hayland and woodland; Wheeling—woodland

#### **Cropland**

*Suitability:* Not suited

*Management concerns and considerations:*

- Because of steep slopes, the rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased and the use of farm machinery is restricted.
- Frequent flooding restricts the use of winter grain crops.
- Flooding may damage crops.

#### **Pasture and hayland**

*Suitability:* Not suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.

#### **Woodland**

*Suitability:* Poorly suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **Co—Combs fine sandy loam, occasionally flooded**

### ***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, coarse-loamy alluvium of the Quaternary System

*Elevation:* 380 to 500 feet

### ***Map Unit Composition***

Combs and similar soils: 90 percent

Contrasting inclusions:

Huntington soils—8 percent

Nelse soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

## Soil Survey of Jefferson County, Kentucky

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 5.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* High (about 9.6 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 3.5 to 5.8 feet

*Water table kind:* Apparent

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### **Typical Profile**

Surface layer—0 to 14 inches; loam

Subsoil—14 to 77 inches; fine sandy loam

Substratum—77 to 102 inches; silt loam

### **Interpretive Groups**

*Land capability classification:* 2w

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### **Use and Management Considerations**

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Flooding may damage crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **CrA—Crider silt loam, 0 to 2 percent slopes**

### ***Setting***

*Landform:* Ridge on karst upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Sellersburg, Jeffersonville, and Louisville Formations of the Devonian and Silurian Systems

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Crider and similar soils: 90 percent

Contrasting inclusions:

Caneyville soils—7 percent

Nicholson soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 10.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 24 inches; silt loam

Subsoil—24 to 100 inches; silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 1

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.
- The risk of compaction increases when the soil is wet.

- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

### **CrB—Crider silt loam, 2 to 6 percent slopes**

#### ***Setting***

*Landform:* Ridge on karst upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Sellersburg, Jeffersonville, and Louisville Formations of the Devonian and Silurian Systems

*Elevation:* 500 to 800 feet

#### ***Map Unit Composition***

Crider and similar soils: 90 percent

Contrasting inclusions:

Caneyville soils—7 percent

Nicholson soils—3 percent

#### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 10.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate



### ***Typical Profile***

Surface layer—0 to 7 inches; silt loam  
Subsoil—7 to 24 inches; silt loam  
Subsoil—24 to 100 inches; silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 2e  
*Prime and other important farmland:* All areas are prime farmland  
*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **CrC—Crider silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Ridge on karst upland  
*Landform position (two-dimensional):* Shoulder  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone

and dolomite of the Sellersburg, Jeffersonville, and Louisville Formations of the Devonian and Silurian Systems  
*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Crider and similar soils: 90 percent  
Contrasting inclusions:  
    Caneyville soils—5 percent  
    Nicholson soils—3 percent  
    Beasley soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep  
*Drainage class:* Well drained  
*Organic matter content in the surface layer:* 2.0 to 4.0 percent  
*Saturated hydraulic conductivity (Ksat):* Moderately high  
*Available water capacity:* High (about 10.4 inches to a depth of 60 inches)  
*Depth to restrictive features:* More than 80 inches  
*Potential for surface runoff:* Medium  
*Depth to the top of the seasonal high water table:* More than 6 feet  
*Flooding:* None  
*Ponding:* None  
*Surface layer texture:* Silt loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 7 inches; silt loam  
Subsoil—7 to 24 inches; silt loam  
Subsoil—24 to 100 inches; silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 3e  
*Prime and other important farmland:* Farmland of statewide importance  
*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited  
*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **CrD—Crider silt loam, 12 to 20 percent slopes**

### ***Setting***

*Landform:* Hill on karst upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Sellersburg, Jeffersonville, and Louisville Formations of the Devonian and Silurian Systems

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Crider and similar soils: 80 percent

Contrasting inclusions:

Caneyville soils—9 percent

Beasley soils—8 percent

Nicholson soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 10.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 24 inches; silt loam

Subsoil—24 to 100 inches; silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 4e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The potential for ground-water contamination is increased because of the karst (sinkhole) areas.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **DAM—Dam, large**

### ***Map Unit Composition***

Dam, large: 100 percent

***Interpretive Groups***

*Land capability classification:* 8s

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

**Land Uses:** Dams for water impoundment

**Dp—Dumps, ash**

***Map Unit Composition***

Dumps, ash: 100 percent

***Interpretive Groups***

*Land capability classification:* 8s

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

**Land Uses:** Dumps used to store fly ash from coal-burning electric plants

**EkA—Elk silt loam, 0 to 2 percent slopes**

***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

***Map Unit Composition***

Elk and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—4 percent

Lawrence soils—3 percent

Nolin soils—3 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 3.0 to 5.0 feet

*Water table kind:* Apparent

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam  
Subsoil—12 to 36 inches; silt loam  
Subsoil—36 to 69 inches; silty clay loam  
Substratum—69 to 87 inches; gravelly silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 1

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

- This soil is well suited to pasture and hayland.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include general adherence to all applicable best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **EkB—Elk silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Elk and similar soils: 90 percent

Contrasting inclusions:

    Otwood soils—4 percent

    Lawrence soils—3 percent

    Nolin soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 3.0 to 5.0 feet

*Water table kind:* Apparent

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 36 inches; silt loam

Subsoil—36 to 69 inches; silty clay loam

Substratum—69 to 87 inches; gravelly silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **EkC—Elk silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Elk and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—5 percent

Nolin soils—3 percent

Lawrence soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* 3.0 to 5.0 feet

*Water table kind:* Apparent

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 36 inches; silt loam

Subsoil—36 to 69 inches; silty clay loam

Substratum—69 to 87 inches; gravelly silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.



- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

### **EkD—Elk silt loam, 12 to 25 percent slopes**

#### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

#### ***Map Unit Composition***

Elk and similar soils: 90 percent

Contrasting inclusions:

Beasley soils—4 percent

Faywood soils—3 percent

Woolper soils—3 percent

#### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* 3.0 to 5.0 feet

*Water table kind:* Apparent

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 36 inches; silt loam

Subsoil—36 to 69 inches; silty clay loam

Substratum—69 to 87 inches; gravelly silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 4e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Because of steep slopes, the rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased and the use of farm machinery is restricted.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope poses safety hazards and creates a potential for erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **EoA—Elk silt loam, 0 to 2 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Elk and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—4 percent

Huntington soils—3 percent

Sciotoville soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 3.0 to 5.0 feet

*Water table kind:* Apparent

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 36 inches; silt loam

Subsoil—36 to 69 inches; silty clay loam

Substratum—69 to 87 inches; gravelly silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 1

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include general adherence to all applicable best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

**EoB—Elk silt loam, 2 to 6 percent slopes, occasionally flooded**

***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

***Map Unit Composition***

Elk and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—5 percent

Huntington soils—3 percent

Sciotoville soils—2 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 3.0 to 5.0 feet

*Water table kind:* Apparent

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam  
Subsoil—12 to 36 inches; silt loam  
Subsoil—36 to 69 inches; silty clay loam  
Substratum—69 to 87 inches; gravelly silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include general adherence to all applicable best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **EoC—Elk silt loam, 6 to 12 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Elk and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—5 percent

Huntington soils—3 percent

Sciotoville soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* 3.0 to 5.0 feet

*Water table kind:* Apparent

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 36 inches; silt loam

Subsoil—36 to 69 inches; silty clay loam

Substratum—69 to 87 inches; gravelly silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.

### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **FaC—Faywood silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from dolomite, limestone, and shale of the Laurel, Osgood, and Brassfield Formations and the Saluda and Bardstown Members of the Drakes and the Grant Lake Formations, of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Faywood and similar soils: 80 percent

Contrasting inclusions:

Beasley soils—8 percent

Caneyville soils—7 percent

Crider soils—5 percent

### ***Soil Properties and Qualities***

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 4.7 inches to a depth of 29 inches)

*Depth to restrictive features:* 20 to 40 inches to lithic bedrock

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

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*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 29 inches; silty clay

Lithic bedrock—29 to 33 inches; unweathered limestone bedrock

### **Interpretive Groups**

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### **Use and Management Considerations**

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The moderate depth to bedrock restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The moderate depth to bedrock restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The moderate depth to bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil increases the difficulty of constructing haul roads and log landings when the soil is wet.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*



## **FaD—Faywood silt loam, 12 to 25 percent slopes**

### ***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from dolomite, limestone, and shale of the Laurel, Osgood, and Brassfield Formations and the Saluda and Bardstown Members of the Drakes and the Grant Lake Formations, of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Faywood and similar soils: 80 percent

Contrasting inclusions:

Beasley soils—8 percent

Caneyville soil—7 percent

Crider soils—3 percent

Shrouds soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 4.7 inches to a depth of 29 inches)

*Depth to restrictive features:* 20 to 40 inches to lithic bedrock

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 29 inches; silty clay

Lithic bedrock—29 to 33 inches; unweathered limestone bedrock

### ***Interpretive Groups***

*Land capability classification:* 4e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Because of steep slopes, the rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased and the use of farm machinery is restricted.
- The moderate depth to bedrock restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

**Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The moderate depth to bedrock restricts the rooting depth.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The moderate depth to bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil increases the difficulty of constructing haul roads and log landings when the soil is wet.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

**FeC3—Faywood silty clay loam, 6 to 12 percent slopes, severely eroded**

***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from dolomite, limestone, and shale of the Laurel, Osgood, and Brassfield Formations and the Saluda and Bardstown Members of the Drakes and the Grant Lake Formations, of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

***Map Unit Composition***

Faywood and similar soils: 85 percent

Contrasting inclusions:

Caneyville soils—6 percent

Beasley soils—5 percent

Shrouds soils—4 percent

**Soil Properties and Qualities**

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 5.1 inches to a depth of 33 inches)

*Depth to restrictive features:* 20 to 40 inches to lithic bedrock

*Potential for surface runoff:* High

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silty clay loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

**Typical Profile**

Surface layer—0 to 2 inches; silty clay loam

Subsoil—2 to 33 inches; silty clay

Lithic bedrock—33 to 37 inches; unweathered limestone bedrock

**Interpretive Groups**

*Land capability classification:* 4e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

**Use and Management Considerations**

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

**Cropland**

*Suitability:* Poorly suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- Erosion has removed part of the surface soil, and the remaining surface soil is less productive and more difficult to manage.
- The moderate depth to bedrock restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

**Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The moderate depth to bedrock restricts the rooting depth.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The moderate depth to bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil increases the difficulty of constructing haul roads and log landings when the soil is wet.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

**FeD3—Faywood silty clay loam, 12 to 25 percent slopes, severely eroded**

***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from dolomite, limestone, and shale of the Laurel, Osgood, and Brassfield Formations and the Saluda and Bardstown Members of the Drakes and the Grant Lake Formations, of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

***Map Unit Composition***

Faywood and similar soils: 80 percent

Contrasting inclusions:

Shrouds soils—8 percent

Beasley soils—7 percent

Caneyville soils—5 percent

***Soil Properties and Qualities***

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 5.1 inches to a depth of 33 inches)

*Depth to restrictive features:* 20 to 40 inches to lithic bedrock

*Potential for surface runoff:* High

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silty clay loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 2 inches; silty clay loam

Subsoil—2 to 33 inches; silty clay

Lithic bedrock—33 to 37 inches; unweathered limestone bedrock

### ***Interpretive Groups***

*Land capability classification:* 6e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

- This soil is unsuited to cropland.

#### **Pasture and hayland**

*Suitability:* Poorly suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The moderate depth to bedrock restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The moderate depth to bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil increases the difficulty of constructing haul roads and log landings when the soil is wet.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

## **FsF—Faywood-Shrouds-Beasley complex, 25 to 50 percent slopes**

### ***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Faywood—clayey residuum weathered from dolomite, limestone, and

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shale of the Laurel, Osgood, and Brassfield Formations and the Saluda and Bardstown Members of the Drakes and the Grant Lake Formations, of the Silurian and Ordovician Systems; Shrouts and Beasley—clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Faywood and similar soils—40 percent

Shrouts and similar soils: 30 percent

Beasley and similar soils: 25 percent

Contrasting inclusions:

Caneyville soils—3 percent

Woolper soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Faywood and Shrouts—moderately deep; Beasley—deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* Faywood—1.0 to 2.0 percent; Shrouts—0.5 to 3.0 percent; Beasley—0.5 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Faywood—low (about 4.7 inches to a depth of 29 inches); Shrouts—low (about 4.7 inches to a depth of 35 inches); Beasley—moderate (about 7.6 inches to a depth of 48 inches)

*Depth to restrictive features:* Faywood—20 to 40 inches to lithic bedrock; Shrouts—20 to 40 inches to paralithic bedrock; Beasley—40 to 60 inches to paralithic bedrock

*Potential for surface runoff:* Faywood and Beasley—high; Shrouts—very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* Faywood and Shrouts—0 percent; Beasley—8 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

#### **Faywood**

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 29 inches; silty clay

Lithic bedrock—29 to 33 inches; unweathered limestone bedrock

#### **Shrouts**

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 20 inches; silty clay

Substratum—20 to 35 inches; silty clay

Paralithic bedrock—35 to 45 inches; weathered calcareous shale bedrock

#### **Beasley**

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 48 inches; silty clay

Paralithic bedrock—48 to 58 inches; weathered calcareous shale bedrock

### ***Interpretive Groups***

*Land capability classification:* 7e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Woodland

#### **Cropland**

- These soils are unsuited to cropland.

#### **Pasture and hayland**

- These soils are unsuited to pasture and hayland.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality, especially on the steeper slopes.
- A timber harvest plan should focus on the proper location of haul roads and skid trails, and careful attention should be given to best management practices.
- The moderate depth to bedrock of the Faywood and Shrouds soils may interfere with the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil increases the difficulty of constructing haul roads and log landings when the soil is wet.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

## **GpD—Gilpin silt loam, 12 to 25 percent slopes**

### ***Setting***

*Landform:* Knob on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Fine-loamy residuum weathered from shale and siltstone of the Muldraugh, Holtsclaw, Nancy, Kenwood, and New Providence Members of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

### ***Map Unit Composition***

Gilpin and similar soils: 80 percent

Contrasting inclusions:

    Carpenter soils—7 percent

    Weikert soils—7 percent

    Tilsit soils—6 percent



### ***Soil Properties and Qualities***

*Depth class:* Moderately deep  
*Drainage class:* Well drained  
*Organic matter content in the surface layer:* 2.0 to 4.0 percent  
*Saturated hydraulic conductivity (Ksat):* Moderately high  
*Available water capacity:* Low (about 4.1 inches to a depth of 31 inches)  
*Depth to restrictive features:* 20 to 40 inches to paralithic bedrock  
*Potential for surface runoff:* Medium  
*Depth to the top of the seasonal high water table:* More than 6 feet  
*Flooding:* None  
*Ponding:* None  
*Surface layer texture:* Silt loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam  
Subsoil—12 to 23 inches; silt loam  
Substratum—23 to 31 inches; very channery silt loam  
Lithic bedrock—31 to 35 inches; unweathered bedrock

### ***Interpretive Groups***

*Land capability classification:* 4e  
*Prime and other important farmland:* Not prime farmland  
*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Because of steep slopes, the rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased and the use of farm machinery is restricted.
- The moderate depth to bedrock restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The moderate depth to bedrock restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.



- The moderate depth to bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the “Use and Management” section for more information.*

## **GwF—Gilpin-Weikert complex, 25 to 60 percent slopes**

### ***Setting***

*Landform:* Knob on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Gilpin—fine-loamy residuum weathered from shale and siltstone of the Muldraugh, Holtsclaw, Nancy, Kenwood, and New Providence Members of the Borden Formation of the Mississippian System; Weikert—loamy-skeletal residuum weathered from siltstone and shale of the Kenwood and New Providence Members of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

### ***Map Unit Composition***

Gilpin and similar soils: 45 percent

Weikert and similar soils: 40 percent

Contrasting inclusions:

    Carpenter soils—8 percent

    Caneyville soils—5 percent

    Tilsit soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Gilpin—moderately deep; Weikert—shallow

*Drainage class:* Gilpin—well drained; Weikert—somewhat excessively drained

*Organic matter content in the surface layer:* Gilpin—2.0 to 4.0 percent; Weikert—1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Gilpin—moderately high; Weikert—high

*Available water capacity:* Gilpin—low (about 4.1 inches to a depth of 31 inches);

    Weikert—very low (about 1.7 inches to a depth of 18 inches)

*Depth to restrictive features:* Gilpin—20 to 40 inches to paralithic bedrock; Weikert—10 to 20 inches to paralithic bedrock

*Potential for surface runoff:* Gilpin—high; Weikert—medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

#### **Gilpin**

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 23 inches; silt loam

Substratum—23 to 31 inches; very channery silt loam  
Lithic bedrock—31 to 35 inches; unweathered bedrock

**Weikert**

Surface layer—0 to 4 inches; silt loam  
Subsoil—4 to 18 inches; very channery silt loam  
Paralithic bedrock—18 to 28 inches; weathered bedrock

***Interpretive Groups***

*Land capability classification:* 7e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

***Use and Management Considerations***

**Land Uses:** Woodland

**Cropland**

- These soils are unsuited to cropland.

**Pasture and hayland**

- These soils are unsuited to pasture and hayland.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The depth to bedrock may interfere with the construction of haul roads and log landings.
- Rock fragments restrict the use of equipment for site preparation for planting or seeding.
- Coarse textured soil material may create equipment limitations.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

**Ha—Huntington silt loam, occasionally flooded**

***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 500 feet

***Map Unit Composition***

Huntington and similar soils: 90 percent

Contrasting inclusions:

Nolin soils—4 percent

Elk soils—3 percent

Lindside soils—3 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 3.0 to 6.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 11.8 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 3.4 to 5.2 feet

*Water table kind:* Apparent

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

***Typical Profile***

Surface layer—0 to 22 inches; silt loam

Subsoil—22 to 59 inches; silt loam

Substratum—59 to 94 inches; silt loam

***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

**Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Flooding may damage crops.

**Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.

- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the “Use and Management” section for more information.*

## **Hf—Huntington silt loam, frequently flooded**

### ***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 500 feet

### ***Map Unit Composition***

Huntington and similar soils: 90 percent

Contrasting inclusions:

Combs soils—4 percent

Elk soils—3 percent

Lindside soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 3.0 to 6.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 11.8 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 3.4 to 5.2 feet

*Water table kind:* Apparent

*Flooding:* Frequent

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 22 inches; silt loam

Subsoil—22 to 59 inches; silt loam

Substratum—59 to 94 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Frequent flooding restricts the use of winter grain crops.
- Flooding may damage crops.

### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **LaA—Lawrence silt loam, 0 to 2 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Lawrence and similar soils: 90 percent

Contrasting inclusions:

Nicholson soils—3 percent

Sandview soils—3 percent

Crider soils—2 percent

Robertsville soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 2.1 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 44 inches; silt loam

Substratum—44 to 80 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* 3w

*Prime and other important farmland:* Prime farmland if drained

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with planting and harvesting.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **LaB—Lawrence silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Lawrence and similar soils: 90 percent

Contrasting inclusions:

Nicholson soils—3 percent

Sandview soils—3 percent

Crider soils—2 percent

Robertsville soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 2.1 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Substratum—46 to 80 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* 3w

*Prime and other important farmland:* Prime farmland if drained

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with planting and harvesting.

**Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

**LbA—Lawrence silt loam, 0 to 2 percent slopes,  
occasionally flooded**

***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 400 to 700 feet

***Map Unit Composition***

Lawrence and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—3 percent

Lindside soils—3 percent

Elk soils—2 percent

Robertsville soils—2 percent



### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 2.1 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Substratum—46 to 80 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* 3w

*Prime and other important farmland:* Prime farmland if drained

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with planting and harvesting.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

**LbB—Lawrence silt loam, 2 to 6 percent slopes,  
occasionally flooded**

***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 400 to 700 feet

***Map Unit Composition***

Lawrence and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—3 percent

Lindside soils—3 percent

Elk soils—2 percent

Robertsville soils—2 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 2.1 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam  
Subsoil—10 to 27 inches; silt loam  
Subsoil—27 to 46 inches; silt loam  
Subsurface layer—46 to 80 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* 3w

*Prime and other important farmland:* Prime farmland if drained

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with planting and harvesting.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **Ld—Lindside silt loam, occasionally flooded**

### ***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Lindside and similar soils: 90 percent

Contrasting inclusions:

    Nolin soils—4 percent

    Elk soils—3 percent

    Newark soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.5 to 3.0 feet

*Water table kind:* Apparent

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 16 inches; silt loam

Subsoil—16 to 52 inches; silt loam

Substratum—52 to 90 inches; gravelly silt loam

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.

### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **Ln—Lindside silt loam, frequently flooded**

### ***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Lindside and similar soils: 90 percent

Contrasting inclusions:

Nolin soils—4 percent

Elk soils—3 percent

Newark soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.5 to 3.0 feet

*Water table kind:* Apparent

*Flooding:* Frequent

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 18 inches; silt loam  
Subsoil—18 to 52 inches; silt loam  
Substratum—52 to 90 inches; gravelly silt loam

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* Prime farmland if protected from flooding or not frequently flooded during the growing season

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Frequent flooding restricts the use of winter grain crops.
- Flooding may damage crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **Me—Melvin silt loam, occasionally flooded**

### ***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Melvin and similar soils: 90 percent

Contrasting inclusions:

- Lindside soils—4 percent
- Newark soils—4 percent
- Robertsville soils—2 percent

***Soil Properties and Qualities***

*Depth class:* Very deep  
*Drainage class:* Poorly drained  
*Organic matter content in the surface layer:* 0.5 to 3.0 percent  
*Saturated hydraulic conductivity (Ksat):* Moderately low  
*Available water capacity:* Very high (about 12.5 inches to a depth of 60 inches)  
*Depth to restrictive features:* More than 80 inches  
*Potential for surface runoff:* Low  
*Depth to the top of the seasonal high water table:* 0.0 to 0.8 foot  
*Water table kind:* Apparent  
*Flooding:* Occasional  
*Flooding duration:* Brief  
*Ponding:* None  
*Surface layer texture:* Silt loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Low

***Typical Profile***

Surface layer—0 to 4 inches; silt loam  
Subsoil—4 to 56 inches; silt loam  
Substratum—56 to 82 inches; silt loam

***Interpretive Groups***

*Land capability classification:* 3w  
*Prime and other important farmland:* Prime farmland if drained  
*Hydric soil:* Yes; hydric criteria—2B3

***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

**Cropland**

*Suitability:* Poorly suited  
*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with planting and harvesting.

**Pasture and hayland**

*Suitability:* Moderately suited  
*Management concerns and considerations:*

- Flooding may damage pastures.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- Compaction may occur when the soil is wet.

## **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **Mf—Melvin silt loam, frequently flooded**

### ***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Melvin and similar soils: 90 percent

Contrasting inclusions:

Newark soils—4 percent

Robertsville soils—4 percent

Lindside soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Poorly drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Very high (about 12.5 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 0.0 to 0.8 foot

*Water table kind:* Apparent

*Flooding:* Frequent

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 4 inches; silt loam

Subsoil—4 to 56 inches; silt loam

Substratum—56 to 82 inches; silt loam



### ***Interpretive Groups***

*Land capability classification:* 3w

*Prime and other important farmland:* Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

*Hydric soil:* Yes; hydric criteria—2B3

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Poorly suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Frequent flooding restricts the use of winter grain crops.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with planting and harvesting.

#### **Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Flooding may damage pastures.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **Ne—Newark silt loam, occasionally flooded**

### ***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 800 feet

### ***Map Unit Composition***

Newark and similar soils: 90 percent

Contrasting inclusions:

Lindside soils—4 percent

Lawrence soils—3 percent

Melvin soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.5 feet

*Water table kind:* Apparent

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 41 inches; silt loam

Substratum—41 to 98 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* Prime farmland if drained

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with planting and harvesting.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- Compaction may occur when the soil is wet.

## **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **Nf—Newark silt loam, frequently flooded**

### ***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 800 feet

### ***Map Unit Composition***

Newark and similar soils: 90 percent

Contrasting inclusions:

    Melvin soils—4 percent

    Lawrence soils—3 percent

    Lindside soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.5 feet

*Water table kind:* Apparent

*Flooding:* Frequent

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 41 inches; silt loam

Substratum—41 to 98 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Frequent flooding restricts the use of winter grain crops.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with planting and harvesting.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **NnA—Nicholson silt loam, 0 to 2 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Linear

*Across-slope shape:* Linear

## Soil Survey of Jefferson County, Kentucky

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

### **Map Unit Composition**

Nicholson and similar soils: 90 percent

Contrasting inclusions:

Lawrence soils—4 percent

Crider soils—3 percent

Sandview soils—3 percent

### **Soil Properties and Qualities**

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 16 to 30 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 27 inches; silt loam

Subsoil—27 to 59 inches; silt loam

Subsoil—59 to 74 inches; silty clay loam

Substratum—74 to 87 inches; silty clay

### **Interpretive Groups**

*Land capability classification:* 2w

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### **Use and Management Considerations**

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.

## **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **NnB—Nicholson silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Nicholson and similar soils: 90 percent

Contrasting inclusions:

Lawrence soils—4 percent

Crider soils—3 percent

Sandview soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 16 to 30 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 27 inches; silt loam

Subsoil—27 to 59 inches; silt loam

Subsoil—59 to 74 inches; silty clay loam

Substratum—74 to 87 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **NnC—Nicholson silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Nicholson and similar soils: 90 percent

Contrasting inclusions:

Caneyville soils—4 percent

Crider soils—3 percent

Sandview soils—3 percent

**Soil Properties and Qualities**

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 16 to 30 inches to a fragipan

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

**Typical Profile**

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 27 inches; silt loam

Subsoil—27 to 59 inches; silt loam

Subsoil—59 to 74 inches; silty clay loam

Substratum—74 to 87 inches; silty clay

**Interpretive Groups**

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

**Use and Management Considerations**

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

**Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

**Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.



## **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions and reduces the operating efficiency of log trucks.
- The slope may restrict the use of some mechanical planting equipment.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **No—Nolin silt loam, occasionally flooded**

### ***Setting***

*Landform:* Flood plain in river valley

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 800 feet

### ***Map Unit Composition***

Nolin and similar soils: 90 percent

Contrasting inclusions:

Elk soils—3 percent

Lindside soils—3 percent

Boonewood soils—2 percent

Newark soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* Very high (about 12.6 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 82 inches; silt loam

Substratum—82 to 101 inches; loam

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **OtA—Otwood silt loam, 0 to 2 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Otwood and similar soils: 90 percent

Contrasting inclusions:

Lawrence soils—4 percent

Elk soils—3 percent

Nolin soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.7 inches to a depth of 27 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.2 to 2.5 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 20 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Subsoil—46 to 83 inches; silt loam

Substratum—83 to 91 inches; stratified sandy loam to loam

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.

- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **OtB—Otwood silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Otwood and similar soils: 90 percent

Contrasting inclusions:

Lawrence soils—4 percent

Elk soils—3 percent

Nolin soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.7 inches to a depth of 27 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.2 to 2.5 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 20 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Subsoil—46 to 83 inches; silt loam

Substratum—83 to 91 inches; stratified sandy loam to loam

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **OtC—Otwood silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Otwood and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Nolin soils—4 percent

Lawrence soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.7 inches to a depth of 27 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* 1.2 to 2.5 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 20 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Subsoil—46 to 83 inches; silt loam

Substratum—83 to 91 inches; stratified sandy loam to loam

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.

- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **OwA—Otwood silt loam, 0 to 2 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Otwood and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Sciotoville soils—4 percent

Huntington soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.7 inches to a depth of 27 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.2 to 2.5 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 20 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Subsoil—46 to 83 inches; silt loam

Subsoil—83 to 91 inches; stratified sandy loam to loam

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.
- The fragipan restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **OwB—Otwood silt loam, 2 to 6 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Otwood and similar soils: 90 percent



Contrasting inclusions:

- Elk soils—4 percent
- Sciotoville soils—4 percent
- Huntington soils—2 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.7 inches to a depth of 27 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.2 to 2.5 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 20 percent

*Shrink-swell potential:* Moderate

***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Subsoil—46 to 83 inches; silt loam

Substratum—83 to 91 inches; stratified sandy loam to loam

***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

**Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

**Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.
- The fragipan restricts the rooting depth.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

**OwC—Otwood silt loam, 6 to 12 percent slopes,  
occasionally flooded**

***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

***Map Unit Composition***

Otwood and similar soils: 90 percent

Contrasting inclusions:

Elk soils—5 percent

Huntington soils—3 percent

Sciotoville soils—2 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 5.7 inches to a depth of 27 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* 1.2 to 2.5 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 20 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Subsoil—46 to 83 inches; silt loam

Substratum—83 to 91 inches; stratified sandy loam to loam

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.
- The fragipan restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **Pa—Patton silt loam, ponded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 600 feet

### ***Map Unit Composition***

Patton and similar soils: 90 percent

Contrasting inclusions:

Lawrence soils—4 percent

Melvin soils—2 percent

Robertsville soils—2 percent

Zipp soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Very poorly drained

*Organic matter content in the surface layer:* 1.0 to 5.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* High (about 11.9 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Negligible

*Depth to the top of the seasonal high water table:* 0.0 to 1.0 foot

*Water table kind:* Apparent

*Flooding:* None

*Ponding:* Occasional

*Ponding duration:* Brief

*Depth of ponding:* 0.0 to 2.0 feet

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 11 inches; silt loam

Subsoil—11 to 48 inches; silty clay loam

Substratum—48 to 85 inches; silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 5w

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* Yes; hydric criteria—2B3

### ***Use and Management Considerations***

**Land Uses:** Pasture and woodland

#### **Cropland**

- This soil is unsuited to cropland.

### **Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- Compaction may occur when the soil is wet.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Ponding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

## **Pt—Pits, quarries**

### ***Map Unit Composition***

Pits, quarries: 100 percent

### ***Interpretive Groups***

*Land capability classification:* 8s

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

**Land Uses:** Limestone or gravel quarries

## **RoA—Robertsville silt loam, 0 to 2 percent slopes**

### ***Setting***

*Landform:* Depressions on ridge on upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone, shale, and dolomite of the Silurian and Ordovician Systems

*Elevation:* 500 to 700 feet

### ***Map Unit Composition***

Robertsville and similar soils: 90 percent

Contrasting inclusions:

Lawrence soils—4 percent

Nicholson soils—4 percent

Crider soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Poorly drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 3.3 inches to a depth of 16 inches)

*Depth to restrictive features:* 15 to 36 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 0.0 to 0.8 foot

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 16 inches; silt loam

Subsoil—16 to 74 inches; silt loam

Substratum—74 to 90 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* 4w

*Prime and other important farmland:* Prime farmland if drained

*Hydric soil:* Yes; hydric criteria—2B3

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Poorly suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.

- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the “Use and Management” section for more information.*

## **RpA—Robertsville silt loam, 0 to 2 percent slopes, ponded**

### ***Setting***

*Landform:* Depressions on stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 500 feet

### ***Map Unit Composition***

Robertsville and similar soils: 90 percent

Contrasting inclusions:

Melvin soils—4 percent

Zipp soils—4 percent

Newark soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Poorly drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 3.3 inches to a depth of 16 inches)

*Depth to restrictive features:* 15 to 36 inches to a fragipan

*Potential for surface runoff:* Negligible

*Depth to the top of the seasonal high water table:* 0.0 to 0.8 foot

*Water table kind:* Perched

*Flooding:* None

*Ponding:* Occasional

*Ponding duration:* Brief

*Depth of ponding:* 0.0 to 2.0 feet

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 16 inches; silt loam

Subsoil—16 to 74 inches; silt loam

Substratum—74 to 90 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 5w

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* Yes; hydric criteria—2B3

### ***Use and Management Considerations***

**Land Uses:** Pasture and woodland

#### **Cropland**

- This soil is unsuited to cropland.

#### **Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Ponding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **SaB—Sandview silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and shale of the Ordovician System

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Sandview and similar soils: 90 percent

Contrasting inclusions:

Crider soils—4 percent

Faywood soils—3 percent

Nicholson soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 11.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches



*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 41 inches; silt loam

Subsoil/substratum—41 to 82 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **SaC—Sandview silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and shale of the Ordovician System

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Sandview and similar soils: 90 percent

Contrasting inclusions:

Crider soils—4 percent

Beasley soils—2 percent

Faywood soils—2 percent

Nicholson soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Available water capacity:* High (about 11.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 41 inches; silt loam

Subsoil/substratum—41 to 82 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

**ScA—Sciotoville silt loam, 0 to 2 percent slopes**

***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

***Map Unit Composition***

Sciotoville and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Otwood soils—4 percent

Weinbach soils—2 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 3.7 inches to a depth of 17 inches)

*Depth to restrictive features:* 16 to 38 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 17 inches; silt loam  
Subsoil—17 to 77 inches; silt loam  
Substratum—77 to 100 inches; loam

### ***Interpretive Groups***

*Land capability classification:* 2w  
*Prime and other important farmland:* All areas are prime farmland  
*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **ScB—Sciotoville silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Sciotoville and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Otwood soils—4 percent

Weinbach soils—2 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 3.7 inches to a depth of 17 inches)

*Depth to restrictive features:* 16 to 38 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 17 inches; silt loam

Subsoil—17 to 77 inches; silt loam

Substratum—77 to 100 inches; loam

***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

**Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

**Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.

## **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **ScC—Sciotoville silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Sciotoville and similar soils: 90 percent

Contrasting inclusions:

Elk soils—5 percent

Otwood soils—5 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 3.7 inches to a depth of 17 inches)

*Depth to restrictive features:* 16 to 38 inches to a fragipan

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 17 inches; silt loam

Subsoil—17 to 77 inches; silt loam

Substratum—77 to 100 inches; loam

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **SdA—Sciotoville silt loam, 0 to 2 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Sciotoville and similar soils: 90 percent

Contrasting inclusions:

- Elk soils—4 percent
- Otwood soils—4 percent
- Weinbach soils—2 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 3.7 inches to a depth of 17 inches)

*Depth to restrictive features:* 16 to 38 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

***Typical Profile***

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 17 inches; silt loam

Subsoil—17 to 77 inches; silt loam

Substratum—77 to 100 inches; loam

***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

**Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

**Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.
- The fragipan restricts the rooting depth.



## **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **SdB—Sciotoville silt loam, 2 to 6 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Sciotoville and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Otwood soils—4 percent

Weinbach soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 3.7 inches to a depth of 17 inches)

*Depth to restrictive features:* 16 to 38 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 10 inches; silt loam  
Subsoil—10 to 17 inches; silt loam  
Subsoil—17 to 77 inches; silt loam  
Substratum—77 to 100 inches; loam

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.
- The fragipan restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **ShC3—Shrouts silt loam, 6 to 12 percent slopes, severely eroded**

### ***Setting***

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Shrouts and similar soils: 75 percent

Contrasting inclusions:

Beasley soils—8 percent

Faywood soils—7 percent

Caneyville soils—5 percent

Crider soils—5 percent

### ***Soil Properties and Qualities***

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 4.7 inches to a depth of 35 inches)

*Depth to restrictive features:* 20 to 40 inches to paralithic bedrock

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 20 inches; silty clay

Substratum—20 to 35 inches; silty clay

Paralithic bedrock—35 to 45 inches; weathered bedrock

### ***Interpretive Groups***

*Land capability classification:* 6e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

### **Cropland**

- This soil is unsuited to cropland.

### **Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The bedrock may restrict the rooting depth of plants.

### **Woodland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The moderate depth to bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

## **ShD3—Shrouts silt loam, 12 to 25 percent slopes, severely eroded, very rocky**

### ***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Shrouts and similar soils: 75 percent

Contrasting inclusions:

Beasley soils—8 percent

Faywood soils—7 percent

Caneyville soils—5 percent

Rock outcrop—5 percent

### ***Soil Properties and Qualities***

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* Low (about 4.7 inches to a depth of 35 inches)

*Depth to restrictive features:* 20 to 40 inches to paralithic bedrock

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 20 inches; silty clay

Substratum—20 to 35 inches; silty clay

Paralithic bedrock—35 to 45 inches; weathered bedrock

### ***Interpretive Groups***

*Land capability classification:* 7e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

- This soil is unsuited to cropland.

#### **Pasture and hayland**

- This soil is unsuited to pasture and hayland.

#### **Woodland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The moderate depth to bedrock may interfere with the construction of haul roads and log landings.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil increases the difficulty of constructing haul roads and log landings when the soil is wet.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*

## **TjB—Tilsit silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Knob on upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Fine-silty residuum weathered from siltstone and shale of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

### ***Map Unit Composition***

Tilsit and similar soils: 90 percent

Contrasting inclusions:

    Carpenter soils—4 percent

    Beasley soils—3 percent

    Gilpin soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Moderate (about 6.1 inches to a depth of 32 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 5 inches; silt loam

Subsoil—5 to 32 inches; silt loam

Subsoil—32 to 60 inches; silt loam

Substratum—60 to 85 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

**Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **TjC—Tilsit silt loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Knob on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Fine-silty residuum weathered from siltstone and shale of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

### ***Map Unit Composition***

Tilsit and similar soils: 90 percent

Contrasting inclusions:

    Carpenter soils—4 percent

    Beasley soils—3 percent

    Gilpin soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Moderate (about 6.1 inches to a depth of 32 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 5 inches; silt loam

Subsoil—5 to 32 inches; silt loam

Subsoil—32 to 60 inches; silt loam

Substratum—60 to 85 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*



## **TjD—Tilsit silt loam, 12 to 25 percent slopes**

### ***Setting***

*Landform:* Knob on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Fine-silty residuum weathered from siltstone and shale of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

### ***Map Unit Composition***

Tilsit and similar soils: 90 percent

Contrasting inclusions:

    Carpenter soils—4 percent

    Gilpin soils—4 percent

    Beasley soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Moderate (about 6.1 inches to a depth of 32 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 5 inches; silt loam

Subsoil—5 to 32 inches; silt loam

Subsoil—32 to 60 inches; silt loam

Substratum—60 to 85 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* 4e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Because of steep slopes, the rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased and the use of farm machinery is restricted.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.

**Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

**Ua—Urban land**

***Description and Setting***

Urban land consists of areas where the land surface has been covered with commercial and industrial buildings, streets, parking lots, and other forms of impervious surface. It is on nearly level to sloping flood plains and terraces of the Ohio River, on gently sloping to steep ridges and side slopes, and, less commonly, on nearly level to sloping flood plains and terraces along intermittent and perennial drains throughout the county. Elevation ranges from 380 to 800 feet.

***Map Unit Composition***

Urban land: 95 to 100 percent impervious surfaces

Contrasting materials (a mixture of various cut and fill materials and/or artificial materials): 0 to 5 percent

***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

***Use and Management Considerations***

**Land Uses:** Commercial and industrial developments

Onsite investigation is needed to determine suitability of any area for specific uses.

## **UabC—Urban land-Haplic Udarents-Boonewood complex, 0 to 12 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping flood plains adjacent to intermittent drains throughout the county. Elevation ranges from 380 to 800 feet.

#### **Haplic Udarents**

Haplic Udarents consist of a moderately deep and deep mixture of topsoil, subsoil material, and/or gravel from the natural soils that have been graded and smoothed in order to build urban structures. They are on nearly level to sloping flood plains adjacent to intermittent drains throughout the county. The Haplic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 800 feet.

#### **Boonewood**

*Landform:* Flood plain in valley

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System over limestone of the Ordovician System

*Elevation:* 380 to 800 feet

### ***Map Unit Composition***

Urban land: 50 percent

Haplic Udarents and similar soils: 25 percent

Boonewood and similar soils: 25 percent

### ***Properties and Qualities of Haplic Udarents and the Boonewood Soil***

*Depth class:* Haplic Udarents—moderately deep and deep; Boonewood—moderately deep

*Drainage class:* Haplic Udarents—somewhat poorly drained to well drained; Boonewood—moderately well drained

*Organic matter content in the surface layer:* Haplic Udarents—0 to 5.0 percent; Boonewood—3.0 to 5.0 percent

*Saturated hydraulic conductivity (Ksat):* Haplic Udarents—very low to moderately high; Boonewood—moderately high

*Available water capacity:* Haplic Udarents—very low or low; Boonewood—low (about 3.4 inches to a depth of 30 inches)

*Depth to restrictive features:* Haplic Udarents—20 to 60 inches or more to lithic bedrock; Boonewood—20 to 40 inches to lithic bedrock

*Potential for surface runoff:* Haplic Udarents—medium to very high; Boonewood—low

*Depth to the top of the seasonal high water table:* Haplic Udarents—1.2 to 4.0 feet; Boonewood—1.2 to 2.0 feet

*Water table kind:* Perched

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

#### **Haplic Udarents**

Soil material—0 to 30 inches; silt loam

Lithic bedrock—30 to 34 inches; unweathered bedrock

#### **Boonewood**

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 23 inches; silt loam

Substratum—23 to 30 inches; silt loam

Lithic bedrock—30 to 34 inches; unweathered bedrock

### ***Interpretive Groups***

*Land capability classification:* Urban land and Haplic Udarents—none assigned;

Boonewood—2e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Haplic Udarents—areas adjacent to urban structures; Boonewood—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UacB—Urban land-Haplic Udarents-Combs complex, 0 to 6 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to gently sloping flood plains of the Ohio River. Elevation ranges from 380 to 500 feet.

#### **Haplic Udarents**

Haplic Udarents consist of a very deep mixture of topsoil, subsoil material, and/or gravel from the natural soils that have been graded and smoothed in order to build urban structures. They are on nearly level to gently sloping flood plains of the Ohio River. The Haplic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 500 feet.

#### **Combs**

*Landform:* Flood plain in river valley

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, coarse-loamy alluvium of the Quaternary System

*Elevation:* 380 to 500 feet

### ***Map Unit Composition***

Urban land: 50 percent  
Haplic Udarents and similar soils: 25 percent  
Combs and similar soils: 25 percent

### ***Properties and Qualities of Haplic Udarents and the Combs Soil***

*Depth class:* Very deep  
*Drainage class:* Haplic Udarents—somewhat poorly drained to well drained; Combs—well drained  
*Organic matter content in the surface layer:* Haplic Udarents—0.0 to 2.0 percent; Combs—1.0 to 5.0 percent  
*Saturated hydraulic conductivity (Ksat):* Haplic Udarents—very low to high; Combs—high  
*Available water capacity:* Haplic Udarents—very low or low; Combs—high (about 9.6 inches to a depth of 60 inches)  
*Depth to restrictive features:* Haplic Udarents—60 to 80 inches or more; Combs—more than 80 inches  
*Potential for surface runoff:* Haplic Udarents—medium to very high; Combs—low  
*Depth to the top of the seasonal high water table:* 3.5 to 5.8 feet or more  
*Water table kind:* Apparent  
*Flooding:* Rare  
*Ponding:* None  
*Surface layer texture:* Haplic Udarents—fine sandy loam; Combs—loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Low

### ***Typical Profile***

#### **Haplic Udarents**

Soil material—0 to 77 inches; fine sandy loam  
Soil material—77 to 102 inches; silt loam

#### **Combs**

Surface layer—0 to 14 inches; loam  
Subsoil—14 to 77 inches; fine sandy loam  
Substratum—77 to 102 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Haplic Udarents—none assigned; Combs—2w  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Haplic Udarents—areas adjacent to urban structures; Combs—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UadB—Urban land-Haplic Udarents-Melvin complex, 0 to 6 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to gently sloping flood plains of the Ohio River. Elevation ranges from 380 to 600 feet.

#### **Haplic Udarents**

Haplic Udarents consist of a very deep mixture of topsoil, subsoil material, and/or gravel from the natural soils that have been graded and smoothed in order to build urban structures. They are on nearly level to gently sloping flood plains of the Ohio River. The Haplic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

#### **Melvin**

*Landform:* Flood plain in river valley

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Urban land: 50 percent

Haplic Udarents and similar soils: 25 percent

Melvin and similar soils: 25 percent

### ***Properties and Qualities of Haplic Udarents and the Melvin Soil***

*Depth class:* Very deep

*Drainage class:* Haplic Udarents—somewhat poorly drained to moderately well drained; Melvin—well drained

*Organic matter content in the surface layer:* Haplic Udarents—0.0 to 2.0 percent; Melvin—0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Haplic Udarents—very low to moderately low; Melvin—moderately low

*Available water capacity:* Haplic Udarents—very low or low; Melvin—very high (about 12.5 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Haplic Udarents—medium to very high; Melvin—very low

*Depth to the top of the seasonal high water table:* Haplic Udarents—1.0 to 4.0 feet; Melvin—0.0 to 0.8 foot

*Water table kind:* Apparent

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

#### **Haplic Udarents**

Soil material—0 to 56 inches; silt loam  
Soil material—56 to 82 inches; silt loam

#### **Melvin**

Surface layer—0 to 4 inches; silt loam  
Subsoil—4 to 56 inches; silt loam  
Substratum—56 to 82 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Haplic Udarents—none assigned;  
Melvin—4w  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* Yes; hydric criteria—2B3

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Haplic Udarents—areas adjacent to urban structures; Melvin—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UaeB—Urban land-Haplic Udarents-Newark complex, 0 to 6 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to gently sloping flood plains adjacent to intermittent drains throughout the county. Elevation ranges from 380 to 800 feet.

#### **Haplic Udarents**

Haplic Udarents consist of a very deep mixture of topsoil, subsoil, and/or gravel from the natural soils that have been graded and smoothed in order to build urban structures. They are on nearly level to gently sloping flood plains adjacent to intermittent drains throughout the county. The Haplic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 800 feet.

#### **Newark**

*Landform:* Flood plain in river valley  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Parent material:* Mixed, fine-silty alluvium of the Quaternary System  
*Elevation:* 380 to 800 feet

### ***Map Unit Composition***

Urban land: 50 percent  
Haplic Udarents and similar soils: 25 percent  
Melvin and similar soils: 25 percent

### ***Properties and Qualities of Haplic Udarents and the Melvin Soil***

*Depth class:* Very deep  
*Drainage class:* Haplic Udarents—somewhat poorly drained to moderately well drained; Melvin—somewhat poorly drained  
*Organic matter content in the surface layer:* Haplic Udarents—0.0 to 2.0 percent; Melvin—1.0 to 4.0 percent  
*Saturated hydraulic conductivity (Ksat):* Haplic Udarents—very low to moderately high; Melvin—moderately high  
*Available water capacity:* Haplic Udarents—very low or low; Melvin—very high (about 12.1 inches to a depth of 60 inches)  
*Depth to restrictive features:* More than 80 inches  
*Potential for surface runoff:* Haplic Udarents—medium to very high; Melvin—very low  
*Depth to the top of the seasonal high water table:* Haplic Udarents—1.5 to 4.0 feet; Melvin—1.0 to 1.5 feet  
*Water table kind:* Apparent  
*Flooding:* Haplic Udarents—rare; Melvin—occasional  
*Flooding duration:* Haplic Udarents—none assigned; Melvin—brief  
*Ponding:* None  
*Surface layer texture:* Silt loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Low

### ***Typical Profile***

#### **Haplic Udarents**

Soil material—0 to 41 inches; silt loam  
Soil material—41 to 98 inches; silt loam

#### **Melvin**

Surface layer—0 to 6 inches; silt loam  
Subsoil—6 to 41 inches; silt loam  
Substratum—41 to 98 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Haplic Udarents—none assigned; Melvin—2w  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Haplic Udarents—areas adjacent to urban structures; Melvin—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.



## **UafC—Urban land-Haplic Udarents-Zipp complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping flood plains adjacent to intermittent drains throughout the county. Elevation ranges from 380 to 800 feet.

#### **Haplic Udarents**

Haplic Udarents consist of a very deep mixture of topsoil, subsoil material, and/or slack-water clay from the natural soils that have been graded and smoothed in order to build urban structures. They are on nearly level to sloping lacustrine deposits in the Okolona, South Park, and Fairdale sections of the county. The Haplic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 800 feet.

#### **Zipp**

*Landform:* Lucustrine depressions on lake plain in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Clayey, lacustrine deposits of the Quaternary System

*Elevation:* 380 to 800 feet

### ***Map Unit Composition***

Urban land: 50 percent

Haplic Udarents and similar soils: 25 percent

Zipp and similar soils: 25 percent

### ***Properties and Qualities of Haplic Udarents and the Zipp Soil***

*Depth class:* Very deep

*Drainage class:* Haplic Udarents—somewhat poorly drained to very poorly drained;

Zipp—very poorly drained

*Organic matter content in the surface layer:* Haplic Udarents—0.5 to 1.0 percent;

Zipp—1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Haplic Udarents—very low to moderately low;

Zipp—very low

*Available water capacity:* Haplic Udarents—moderate (about 7.0 inches to a depth of 60 inches); Zipp—moderate (about 7.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Haplic Udarents—very high; Zipp—very low

*Depth to the top of the seasonal high water table:* Haplic Udarents—0.0 to 4.0 feet;

Zipp—0.0 to 0.8 foot

*Water table kind:* Apparent

*Flooding:* None

*Ponding:* Haplic Udarents—none; Zipp—rare

*Ponding duration:* Haplic Udarents—not applicable; Zipp—brief

*Depth of ponding:* Haplic Udarents—not applicable; Zipp—0.0 to 2.0 feet

*Surface layer texture:* Silty clay

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* High

### ***Typical Profile***

#### **Haplic Udarents**

Soil material—0 to 55 inches; silty clay

Soil material—55 to 85 inches; silty clay

#### **Zipp**

Surface layer—0 to 11 inches; silty clay

Subsoil—11 to 55 inches; silty clay

Substratum—55 to 85 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* Urban land and Haplic Udarents—none assigned; Zipp—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* Yes; hydric criteria—2B3

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Haplic Udarents—areas adjacent to urban structures; Zipp—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UagB—Urban land-Udarents complex, wet substratum, 0 to 6 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping flood plains adjacent to intermittent drains throughout the county. Elevation ranges from 380 to 800 feet.

#### **Udarents**

Haplic Udarents consist of a moderately deep and deep mixture of topsoil, subsoil material, and/or gravel from the natural soils that have been graded and smoothed in order to build urban structures. They are on nearly level to sloping flood plains adjacent to intermittent drains throughout the county. The Haplic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 800 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Udarents and similar soils: 40 percent

### ***Properties and Qualities of Udarents***

*Depth class:* Moderately deep and deep

*Drainage class:* Somewhat poorly drained to well drained  
*Organic matter content in the surface layer:* 0.0 to 0.5 percent  
*Saturated hydraulic conductivity (Ksat):* Very low to moderately low  
*Available water capacity:* Very low (about 2.7 inches to a depth of 30 inches)  
*Depth to restrictive features:* 20 to 60 inches to lithic bedrock  
*Potential for surface runoff:* Very high  
*Depth to the top of the seasonal high water table:* 1.2 to 2.0 feet  
*Water table kind:* Perched  
*Flooding:* Rare  
*Ponding:* None  
*Surface layer texture:* Silt loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Low

### ***Typical Profile of Udarents***

Soil material—0 to 50 inches; silt loam  
Lithic bedrock—50 to 54 inches; unweathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UahC—Urban land-Udorthents complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface is covered by commercial and industrial buildings, houses, railroad yards, streets, parking lots, and other impervious surfaces. It is on nearly level to sloping flood plains and terraces of the Ohio River, on gently sloping to steep ridges and side slopes, and, less commonly, on nearly level to sloping flood plains and terraces along intermittent and perennial drains throughout the county. Elevation ranges from 380 to 600 feet.

#### **Udorthents**

Udorthents consist of a deep and very deep mixture of geologic and artificial materials that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping flood plains and terraces of the Ohio River, on gently sloping to steep ridges and side slopes, and, less commonly, on nearly level to sloping flood plains and terraces along intermittent and perennial drains throughout the county. Elevation ranges from 380 to 600 feet.

***Map Unit Composition***

Urban land: 60 percent

Udorthents and similar soils: 40 percent

***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

***Use and Management Considerations***

**Land Uses:** Commercial and industrial developments, residential structures, and railroad yards

Onsite investigation is needed to determine the suitability of any area for specific uses.

**UaiC—Urban land-Udorthents complex, 0 to 12 percent slopes, rarely flooded**

***Descriptions and Settings***

**Urban land**

Urban land consists of areas where the land surface is covered by commercial and industrial buildings, houses, railroad yards, streets, parking lots, and other impervious surfaces. Elevation ranges from 380 to 600 feet. It is on nearly level to sloping flood plains and terraces of the Ohio River, and, less commonly, on nearly level to sloping flood plains and terraces along intermittent and perennial drains that are on the Ohio River side of the flood wall that surrounds downtown Louisville.

**Udorthents**

Udorthents consist of a deep and very deep mixture of geologic and artificial materials that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping flood plains and terraces of the Ohio River and, less commonly, on nearly level to sloping flood plains and terraces along intermittent and perennial drains that are on the Ohio River side of the flood wall that surrounds downtown Louisville. Elevation ranges from 380 to 600 feet.

***Map Unit Composition***

Urban land: 60 percent

Udorthents and similar soils: 40 percent

***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

***Use and Management Considerations***

**Land Uses:** Commercial and industrial developments, residential structures, and railroad yards

Onsite investigation is needed to determine the suitability of any area for specific uses.

## **UajF—Urban land-Udorthents complex, refuse substratum, 0 to 50 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with roads, industrial buildings, parking lots, and other forms of impervious surface. It is in nearly level to very steep areas that have been used as land fill sites throughout the county. Elevation ranges from 380 to 600 feet.

#### **Udorthents**

Udorthents consist of a deep and very deep mixture of geologic and artificial materials that have been graded and smoothed in order to build urban structures. They are in nearly level to very steep areas that have been used as landfill sites throughout the county. Elevation ranges from 380 to 600 feet.

### ***Map Unit Composition***

Urban land: 50 percent

Udorthents and similar soils: 50 percent

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Industrial buildings, parking lots, roads, soccer fields, and other facilities

Onsite investigation is needed to determine the suitability of any area for specific uses.

## **UakF—Urban land-Udorthents complex, smoothed, 0 to 50 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with interstate, State, and county highways, major roads, and other forms of impervious surface. It is in nearly level to very steep areas that have been used as highways and major roads throughout the county. Elevation ranges from 380 to 600 feet.

#### **Udorthents**

Udorthents consist of a deep and very deep mixture of geologic and artificial materials that have been graded and smoothed in order to build highways and major roads. They are in nearly level to very steep areas that have been used as highways and major roads throughout the county. Elevation ranges from 380 to 600 feet.

### ***Map Unit Composition***

Urban land: 30 percent

Udorthents and similar soils: 70 percent

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—highways and major roads; Udothents—areas adjacent to highways and major roads

Onsite investigation is needed to determine the suitability of any area for specific uses.

## **UamC—Urban land-Ultic Udarents-Tilsit complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping footslopes and ridgetops in the southwestern part of Jefferson County. Elevation ranges from 500 to 900 feet.

#### **Ultic Udarents**

Ultic Udarents consist of a very deep mixture of topsoil, fragipan, and subsoil material from the natural soils that have been graded and smoothed in order to build urban structures. They are on nearly level to sloping footslopes and ridgetops in the southwestern part of the county. Elevation ranges from 500 to 900 feet.

#### **Tilsit**

*Landform:* Knob on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Fine-silty residuum weathered from siltstone and shale of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

### ***Map Unit Composition***

Urban land: 50 percent

Ultic Udarents and similar soils: 25 percent

Tilsit and similar soils: 25 percent

### ***Properties and Qualities of Ultic Udarents and the Tilsit Soil***

*Depth class:* Very deep

*Drainage class:* Ultic Udarents—somewhat poorly drained to well drained; Tilsit—moderately well drained

*Organic matter content in the surface layer:* Ultic Udarents—0.0 to 0.5 percent; Tilsit—1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Ultic Udarents—very low to moderately low; Tilsit—very low

*Available water capacity:* Moderate (about 6.1 inches to a depth of 32 inches)

*Depth to restrictive features:* 18 to 32 inches or variable to a fragipan  
*Potential for surface runoff:* Ultic Udarents—very high; Tilsit—high  
*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet or variable  
*Water table kind:* Perched  
*Flooding:* None  
*Ponding:* None  
*Surface layer texture:* Silt loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Low

### ***Typical Profile***

#### **Ultic Udarents**

Soil material—0 to 32 inches; silt loam  
Soil material—32 to 60 inches; silt loam  
Soil material—60 to 85 inches; silt loam

#### **Tilsit**

Surface layer—0 to 5 inches; silt loam  
Subsoil—5 to 32 inches; silt loam  
Subsoil—32 to 60 inches; silt loam  
Substratum—60 to 85 inches; silt loam

### ***Interpretive Groups***

*Land capability classification:* Ultic Udarents and Urban land—none assigned; Tilsit—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Ultic Udarents—areas adjacent to urban structures; Tilsit—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UbC—Urban land-Alfic Udarents complex, loamy substratum, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping flood plains and terraces of the Ohio River. Elevation ranges from 380 to 600 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, loamy subsoil material, and/or gravel from the natural soils that have been graded and smoothed in order to build urban structures. They are on nearly level to sloping flood plains and terraces of the Ohio River. Alfic Udarents are generally adjacent to urban structures and gradate

to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained to well drained

*Organic matter content in the surface layer:* 0.0 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Low to moderately high

*Available water capacity:* Moderate (about 6.5 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile of the Alfic Udarents***

Soil material—0 to 49 inches; loam

Soil material—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UbD—Urban land-Alfic Udarents complex, loamy substratum, 12 to 25 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping flood plains and terraces of the Ohio River. Elevation ranges from 380 to 600 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, loamy subsoil material, and/or gravel from the natural soils that have been graded and smoothed in order to



build urban structures. They are on nearly level to steep flood plains and terraces of the Ohio River. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.0 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Low to moderately high

*Available water capacity:* Moderate (about 6.5 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile of the Alfic Udarents***

Soil material—0 to 49 inches; loam

Soil material—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UcC—Urban land-Alfic Udarents complex, loamy substratum-over hard bedrock, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping areas where the terraces of the Ohio River meet the uplands. Elevation ranges from 380 to 700 feet.

### **Alfic Udarents**

Alfic Udarents consist of a deep and very deep mixture of topsoil, loamy subsoil material, and/or gravel over limestone or dolomite bedrock from the natural soils that have been graded and smoothed in order to build urban structures. They are in nearly level to sloping areas where the terraces of the Ohio River meet the uplands. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 700 feet.

#### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

#### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Deep and very deep

*Drainage class:* Somewhat poorly drained to well drained

*Organic matter content in the surface layer:* 0.0 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Low to moderately high

*Available water capacity:* Moderate (about 6.5 inches to a depth of 60 inches)

*Depth to restrictive features:* 40 to 80 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

#### ***Typical Profile of Alfic Udarents***

Soil material—0 to 49 inches; loam

Soil material—49 to 65 inches; stratified sandy loam

Lithic bedrock—65 to 69 inches; unweathered bedrock

#### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

#### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

### **UcF—Urban land-Alfic Udarents complex, loamy substratum-over hard bedrock, 12 to 50 percent slopes**

#### ***Descriptions and Settings***

##### **Urban land**

Urban land consists of areas where the land surface has been covered with houses,

garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in steep or very steep areas where the terraces of the Ohio River meet the uplands. Elevation ranges from 380 to 700 feet.

### **Alfic Udarents**

Alfic Udarents consist of a deep and very deep mixture of topsoil, loamy subsoil material, and/or gravel over limestone or dolomite bedrock from the natural soils that have been graded and smoothed in order to build urban structures. They are in steep to very steep areas where the terraces of the Ohio River meet the uplands. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 700 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Deep and very deep

*Drainage class:* Somewhat poorly drained to well drained

*Organic matter content in the surface layer:* 0.0 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Low to moderately high

*Available water capacity:* Moderate (about 6.5 inches to a depth of 60 inches)

*Depth to restrictive features:* 40 to 80 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile of Alfic Udarents***

Soil material—0 to 49 inches; loam

Soil material—49 to 65 inches; stratified sandy loam

Lithic bedrock—65 to 69 inches; unweathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UdC—Urban land-Alfic Udarents complex, loamy substratum, 0 to 12 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping flood plains and terraces of the Ohio River that are on the Ohio River side of the flood wall that surrounds downtown Louisville. Elevation ranges from 380 to 600 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, subsoil material, and/or gravel from the natural soils that have been graded and smoothed in order to build urban structures. They are on nearly level to sloping flood plains and terraces of the Ohio River that are on the Ohio River side of the flood wall that surrounds downtown Louisville. Elevation ranges from 380 to 600 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained to well drained

*Organic matter content in the surface layer:* 0.0 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Low to moderately high

*Available water capacity:* Moderate (about 6.5 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile of Alfic Udarents***

Soil material—0 to 49 inches; loam

Soil material—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the "Use and Management" section for more information.

## **UeC—Urban land-Alfic Udarents complex, fragipan substratum-over loamy sediment, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces of the Ohio River. Elevation ranges from 380 to 600 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and loamy subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces of the Ohio River. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained to well drained

*Organic matter content in the surface layer:* 0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low to moderately low

*Available water capacity:* Low (about 4.2 inches to a depth of 20 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan or variable

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet or variable

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile of Alfic Udorthents***

Soil material—0 to 41 inches; silt loam

Soil material—41 to 52 inches; silty clay loam

Soil material—52 to 82 inches; stratified loam to silty clay loam

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UfC—Urban land-Alfic Udarents complex, fragipan substratum-over loamy sediment, 0 to 12 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces of the Ohio River. Elevation ranges from 380 to 600 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and loamy subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces of the Ohio River. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low to moderately low

*Available water capacity:* Low (about 4.2 inches to a depth of 20 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan or variable

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet or variable

*Water table kind:* Perched

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile of Alfic Udarents***

Soil material—0 to 41 inches; silt loam

Soil material—41 to 52 inches; silty clay loam

Soil material—52 to 82 inches; stratified loam to silty clay loam

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UgC—Urban land-Alfic Udarents complex, fragipan substratum-over soft bedrock, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over shale bedrock throughout Jefferson County. Elevation ranges from 500 to 900 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a deep and very deep mixture of topsoil, fragipan, and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in nearly level to sloping upland areas that have been developed over shale bedrock throughout the county. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 900 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Deep and very deep

*Drainage class:* Somewhat poorly drained to well drained

*Organic matter content in the surface layer:* 0.0 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Very low to moderately low

*Available water capacity:* Moderate (about 6.1 inches to a depth of 32 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan or variable

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet or variable

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low



### ***Typical Profile of Alfic Udarents***

Soil material—0 to 27 inches; silt loam  
Soil material—27 to 50 inches; silt loam  
Soil material—50 to 58 inches; silty clay  
Paralithic bedrock—58 to 68 inches; weathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UhC—Urban land-Alfic Udarents complex, fragipan substratum-over hard bedrock, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over limestone or dolomite bedrock throughout the county. Elevation ranges from 500 to 800 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a deep and very deep mixture of topsoil, fragipan, and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in nearly level to sloping upland areas that have been developed over limestone or dolomite bedrock throughout the county. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

### ***Map Unit Composition***

Urban land: 60 percent  
Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Deep and very deep  
*Drainage class:* Somewhat poorly drained to well drained  
*Organic matter content in the surface layer:* 0.0 to 0.5 percent  
*Saturated hydraulic conductivity (Ksat):* Very low to moderately low  
*Available water capacity:* Low (about 5.4 inches to a depth of 27 inches)  
*Depth to restrictive features:* 16 to 30 inches to a fragipan or variable  
*Potential for surface runoff:* Very high  
*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet or variable  
*Water table kind:* Perched



*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile of Alfic Udarents***

Soil material—0 to 27 inches; silt loam

Soil material—27 to 59 inches; silt loam

Soil material—59 to 74 inches; silty clay loam

Soil material—74 to 87 inches; silty clay

Lithic bedrock—87 to 91 inches; unweathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UiC—Urban land-Alfic Udarents complex, clayey substratum-over soft bedrock, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over shale bedrock throughout the county. Elevation ranges from 500 to 900 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a deep and very deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in nearly level to sloping upland areas that have been developed over shale bedrock throughout the county. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 900 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Deep and very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.1 to 0.5 percent  
*Saturated hydraulic conductivity (Ksat):* Very low to moderately low  
*Available water capacity:* Moderate (about 7.2 inches to a depth of 48 inches)  
*Depth to restrictive features:* 40 to 80 inches to paralithic bedrock  
*Potential for surface runoff:* Very high  
*Depth to the top of the seasonal high water table:* More than 6 feet  
*Flooding:* None  
*Ponding:* None  
*Surface layer texture:* Silty clay  
*Calcium carbonate maximum:* 8 percent  
*Shrink-swell potential:* Moderate

### ***Typical Profile of Alfic Udarents***

Soil material—0 to 48 inches; silty clay  
Paralithic bedrock—48 to 58 inches; weathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UiD—Urban land-Alfic Udarents complex, clayey substratum-over soft bedrock, 12 to 25 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in sloping to steep upland areas that have been developed over shale bedrock throughout the county. Elevation ranges from 500 to 900 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a deep and very deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in sloping to steep upland areas that have been developed over shale bedrock throughout the county. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 900 feet.

### ***Map Unit Composition***

Urban land: 60 percent  
Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Deep and very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.1 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Very low to moderately low

*Available water capacity:* Moderate (about 7.2 inches to a depth of 48 inches)

*Depth to restrictive features:* 40 to 80 inches to paralithic bedrock

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silty clay

*Calcium carbonate maximum:* 8 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile of the Alfic Udarents***

Soil material—0 to 48 inches; silty clay

Paralithic bedrock—48 to 58 inches; weathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UiF—Urban land-Ultic Udarents complex, clayey substratum-over soft bedrock, 25 to 50 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in steep and very steep upland areas that have been developed over shale bedrock in the southwestern part of the county. Elevation ranges from 500 to 900 feet.

#### **Ultic Udarents**

Ultic Udarents consist of a deep and very deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in steep and very steep upland areas that have been developed over shale bedrock in the southwestern part of the county. The Ultic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 900 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Ultic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Ultic Udarents***

*Depth class:* Deep and very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.1 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Very low to moderately low

*Available water capacity:* Moderate (about 8.9 inches to a depth of 48 inches)

*Depth to restrictive features:* More than 60 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile of Ultic Udarents***

Soil material—0 to 51 inches; silt loam

Soil material—51 to 70 inches; very channery silty clay loam

Paralithic bedrock—70 to 80 inches; weathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Ultic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UjC—Urban land-Alfic Udarents complex, clayey substratum-over hard bedrock, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over limestone or dolomite bedrock throughout the county. Elevation ranges from 500 to 800 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban

structures. They are in nearly level to sloping upland areas that have been developed over limestone or dolomite bedrock throughout the county. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.0 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Very low to moderately low

*Available water capacity:* High (about 10.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 60 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile of Alfic Udarents***

Soil material—0 to 24 inches; silt loam

Soil material—24 to 50 inches; silty clay loam

Soil material—50 to 70 inches; silty clay

Lithic bedrock—70 to 74 inches; unweathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UjD—Urban land-Alfic Udarents complex, clayey substratum-over hard bedrock, 12 to 25 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of

impervious surface. It is in sloping to steep upland areas that have been developed over limestone or dolomite bedrock throughout the county. Elevation ranges from 500 to 800 feet.

### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in sloping to steep upland areas that have been developed over limestone or dolomite bedrock throughout the county. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.0 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Very low to moderately low

*Available water capacity:* High (about 10.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 60 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile of Alfic Udarents***

Soil material—0 to 24 inches; silt loam

Soil material—24 to 50 inches; silty clay loam

Soil material—50 to 70 inches; silty clay

Lithic bedrock—70 to 74 inches; unweathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UjF—Urban land-Alfic Udarents complex, clayey substratum-over hard bedrock, 25 to 60 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in steep and very steep upland areas that have been developed over limestone or dolomite bedrock throughout the county. Elevation ranges from 500 to 800 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in steep and very steep upland areas that have been developed over limestone or dolomite bedrock throughout the county. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

### ***Map Unit Composition***

Urban land: 60 percent

Alfic Udarents and similar soils: 40 percent

### ***Properties and Qualities of Alfic Udarents***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 0.0 to 0.5 percent

*Saturated hydraulic conductivity (Ksat):* Very low to moderately low

*Available water capacity:* High (about 10.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 60 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile of Alfic Udarents***

Soil material—0 to 24 inches; silt loam

Soil material—24 to 50 inches; silty clay loam

Soil material—50 to 70 inches; silty clay

Lithic bedrock—70 to 74 inches; unweathered bedrock

### ***Interpretive Groups***

*Land capability classification:* None assigned

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No



### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UkC—Urban land-Alfic Udarents-Beasley complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over calcareous shale bedrock in the eastern quarter of the county. Elevation ranges from 500 to 800 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a deep and very deep mixture of topsoil and clayey subsoil material from the natural soils that have been graded and smoothed in order to build urban structures. They are in nearly level to sloping upland areas that have been developed from calcareous shale bedrock in the eastern quarter of the county. Alfic Udarents are generally adjacent to urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

#### **Beasley**

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Beasley and similar soils: 25 percent

### ***Properties and Qualities of Alfic Udarents and the Beasley Soil***

*Depth class:* Alfic Udarents—steep and very deep; Beasley—deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Beasley—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.1 to 0.5 percent; Beasley—0.5 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Beasley—moderately low



*Available water capacity:* Alfic Udarents—moderate (about 7.2 inches to a depth of 48 inches); Beasley—moderate (about 7.6 inches to a depth of 48 inches)

*Depth to restrictive features:* Alfic Udarents—40 to 80 inches to paralithic bedrock; Beasley—40 to 60 inches to paralithic bedrock

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Alfic Udarents—silty clay; Beasley—silt loam

*Calcium carbonate maximum:* 8 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

#### **Alfic Udarents**

Soil material—0 to 48 inches; silty clay

Paralithic bedrock—48 to 58 inches; weathered bedrock

#### **Beasley**

Surface layer—0 to 6 inches; silt loam

Subsoil—6 to 48 inches; silty clay

Paralithic bedrock—48 to 58 inches; weathered bedrock

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;

Beasley—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Beasley—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UIC—Urban land-Alfic Udarents-Caneyville complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over limestone bedrock in the central portion of the county. Elevation ranges from 500 to 800 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a moderately deep and deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in nearly level to sloping upland areas that have been developed over limestone bedrock in the central portion of the county. Alfic Udarents

are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

**Caneyville**

*Landform:* Ridge on karst upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from limestone of the Harrodsburg, Sellersburg, Jeffersonville, and Louisville Formations of the Mississippian, Devonian, and Silurian Systems

*Elevation:* 500 to 800 feet

***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Caneyville and similar soils: 25 percent

***Properties and Qualities of Alfic Udarents and the Caneyville Soil***

*Depth class:* Alfic Udarents—moderately deep and deep; Caneyville—moderately deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Caneyville—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Caneyville—2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Caneyville—moderately low

*Available water capacity:* Alfic Udarents—low (about 4.5 inches to a depth of 30 inches); Caneyville—low (about 4.6 inches to a depth of 30 inches)

*Depth to restrictive features:* Alfic Udarents—20 to 60 inches to lithic bedrock; Caneyville—20 to 40 inches to lithic bedrock

*Potential for surface runoff:* Alfic Udarents—very high; Caneyville—high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Alfic Udarents—silty clay; Caneyville—silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

***Typical Profile***

**Alfic Udarents**

Soil material—0 to 30 inches; silty clay

Lithic bedrock—30 to 34 inches; unweathered bedrock

**Caneyville**

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 30 inches; silty clay

Lithic bedrock—30 to 34 inches; unweathered bedrock

***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned; Caneyville—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Caneyville—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UID—Urban land-Alfic Udarents-Caneyville complex, 12 to 25 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in sloping to steep upland areas that have been developed over limestone bedrock in the central portion of the county. Elevation ranges from 500 to 800 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a moderately deep and deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in sloping to steep upland areas that have been developed over limestone bedrock in the central portion of the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

#### **Caneyville**

*Landform:* Hill on karst upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from limestone of the Harrodsburg, Sellersburg, Jeffersonville, and Louisville Formations of the Mississippian, Devonian, and Silurian Systems

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Caneyville and similar soils: 25 percent

### ***Properties and Qualities of Alfic Udarents and the Caneyville Soil***

*Depth class:* Alfic Udarents—moderately deep and deep; Caneyville—moderately deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Caneyville—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Caneyville—2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low;  
Caneyville—moderately low

*Available water capacity:* Alfic Udarents—low (about 4.5 inches to a depth of 30 inches); Caneyville—low (about 4.6 inches to a depth of 30 inches)

*Depth to restrictive features:* Alfic Udarents—20 to 60 inches to lithic bedrock;  
Caneyville—20 to 40 inches to lithic bedrock

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Alfic Udarents—silty clay; Caneyville—silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

#### **Alfic Udarents**

Soil material—0 to 30 inches; silty clay

Lithic bedrock—30 to 34 inches; unweathered bedrock

#### **Caneyville**

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 30 inches; silty clay

Lithic bedrock—30 to 34 inches; unweathered bedrock

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;  
Caneyville—4e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Caneyville—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UmC—Urban land-Alfic Udarents-Crider complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over limestone bedrock in the central portion of the county. Elevation ranges from 500 to 800 feet.

### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in nearly level to sloping upland areas that have been developed over limestone bedrock in the central portion of the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

### **Crider**

*Landform:* Ridge on karst upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Sellersburg, Jeffersonville, and Louisville Formations of the Devonian and Silurian Systems

*Elevation:* 500 to 800 feet

### **Map Unit Composition**

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Crider and similar soils: 25 percent

### **Properties and Qualities of Alfic Udarents and the Crider Soil**

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Crider—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent;  
Crider—2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—low to moderately high;  
Crider—moderately high

*Available water capacity:* High (about 10.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Alfic Udarents—very high; Crider—high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

#### **Alfic Udarents**

Soil material—0 to 24 inches; silt loam

Soil material—24 to 100 inches; silty clay loam

#### **Crider**

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 24 inches; silt loam

Subsoil—24 to 100 inches; silty clay loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;  
Crider—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Crider—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UmD—Urban land-Alfic Udarents-Crider complex, 12 to 25 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in sloping to steep upland areas that have been developed over limestone bedrock in the central portion of the county. Elevation ranges from 500 to 800 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in sloping to steep upland areas that have been developed over limestone bedrock in the central portion of the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

#### **Crider**

*Landform:* Hill on karst upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Sellersburg, Jeffersonville, and Louisville Formations of the Devonian and Silurian Systems

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Crider and similar soils: 25 percent

### ***Properties and Qualities of Alfic Udarents and the Crider Soil***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent;

Crider—2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—low to moderately high;

Crider—moderately high

*Available water capacity:* High (about 10.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

#### **Alfic Udarents**

Soil material—0 to 24 inches; silt loam

Soil material—24 to 100 inches; silty clay loam

#### **Crider**

Surface layer—0 to 7 inches; silt loam

Subsoil—7 to 24 inches; silt loam

Subsoil—24 to 100 inches; silty clay loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned; Crider—4e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Crider—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UnC—Urban land-Alfic Udarents-Elk complex, 0 to 12 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces along perennial and intermittent drains throughout the county. Elevation ranges from 400 to 700 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and subsoil material from



the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along perennial and intermittent drains throughout the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 400 to 700 feet.

#### **Elk**

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

#### **Map Unit Composition**

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Elk and similar soils: 25 percent

#### **Properties and Qualities of Alfic Udarents and the Elk Soil**

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Elk—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.5 to 1.0 percent; Elk—0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—low to moderately high; Elk—moderately high

*Available water capacity:* Very high (about 12.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Alfic Udarents—very high; Elk—high

*Depth to the top of the seasonal high water table:* 3.0 to 5.0 feet

*Water table kind:* Apparent

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

#### **Typical Profile**

##### **Alfic Udarents**

Soil material—0 to 36 inches; silt loam

Soil material—36 to 69 inches; silty clay loam

Soil material—69 to 87 inches; gravelly silty clay loam

##### **Elk**

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 36 inches; silt loam

Subsoil—36 to 69 inches; silty clay loam

Substratum—69 to 87 inches; gravelly silty clay loam

#### **Interpretive Groups**

*Land capability classification:* Urban land and Alfic Udarents—none assigned; Elk—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No



### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Elk—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UoC—Urban land-Alfic Udarents-Lawrence complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces along perennial and intermittent drains throughout the county. Elevation ranges from 400 to 800 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along perennial and intermittent drains throughout the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 400 to 800 feet.

#### **Lawrence**

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 400 to 800 feet

### ***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Lawrence and similar soils: 25 percent

### ***Properties and Qualities of Alfic Udarents and the Lawrence Soil***

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Lawrence—somewhat poorly drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Lawrence—1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Lawrence—very low

*Available water capacity:* Alfic Udarents—low (about 5.4 inches to a depth of 27 inches); Lawrence—low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan or variable  
*Potential for surface runoff:* Alfic Udarents—very high; Lawrence—high  
*Depth to the top of the seasonal high water table:* 1.0 to 2.1 feet or variable  
*Water table kind:* Perched  
*Flooding:* None  
*Ponding:* None  
*Surface layer texture:* Silt loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Low

### ***Typical Profile***

#### **Alfic Udarents**

Soil material—0 to 27 inches; silt loam  
Soil material—27 to 46 inches; silt loam  
Soil material—46 to 80 inches; silty clay

#### **Lawrence**

Surface layer—0 to 10 inches; silt loam  
Subsoil—10 to 27 inches; silt loam  
Subsoil—27 to 46 inches; silt loam  
Substratum—46 to 80 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;  
Lawrence—3e  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Lawrence—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UpC—Urban land-Alfic Udarents-Lawrence complex, 0 to 12 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces along perennial and intermittent drains throughout the county. Elevation ranges from 400 to 600 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along perennial and intermittent drains throughout the county. Alfic Udarents are generally adjacent to the

urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 400 to 600 feet.

**Lawrence**

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 400 to 600 feet

***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Lawrence and similar soils: 25 percent

***Properties and Qualities of Alfic Udarents and the Lawrence Soil***

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Lawrence—somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Lawrence—very low

*Available water capacity:* Low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 18 to 32 inches to a fragipan or variable

*Potential for surface runoff:* Alfic Udarents—very high; Lawrence—high

*Depth to the top of the seasonal high water table:* 1.0 to 2.1 feet or variable

*Water table kind:* Perched

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

***Typical Profile***

**Alfic Udarents**

Soil material—0 to 27 inches; silt loam

Soil material—27 to 46 inches; silt loam

Soil material—46 to 80 inches; silty clay

**Lawrence**

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Substratum—46 to 80 inches; silty clay

***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned; Lawrence—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Lawrence—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UqC—Urban land-Alfic Udarents-Nicholson complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over limestone bedrock in the central portion of the county. Elevation ranges from 500 to 800 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in nearly level to sloping upland areas that have been developed over limestone bedrock in the central portion of the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

#### **Nicholson**

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

### ***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Nicholson and similar soils: 25 percent

### ***Properties and Qualities of Alfic Udarents and the Nicholson Soil***

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Nicholson—moderately well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Nicholson—2.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udorthents—very low to moderately low; Nicholson—very low

*Available water capacity:* Alfic Udorthents—low (about 5.4 inches to a depth of 27 inches); Nicholson—low (about 5.5 inches to a depth of 27 inches)

*Depth to restrictive features:* 16 to 30 inches to a fragipan or variable  
*Potential for surface runoff:* Alfic Udorthents—very high; Nicholson—high  
*Depth to the top of the seasonal high water table:* 1.5 to 2.5 feet or variable  
*Water table kind:* Perched  
*Flooding:* None  
*Ponding:* None  
*Surface layer texture:* Silt loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Moderate

### ***Typical Profile***

#### **Alfic Udarents**

Soil material—0 to 27 inches; silt loam  
Soil material—27 to 59 inches; silt loam  
Soil material—59 to 74 inches; silty clay loam  
Soil material—74 to 87 inches; silty clay

#### **Nicholson**

Surface layer—0 to 7 inches; silt loam  
Subsoil—7 to 27 inches; silt loam  
Subsoil—27 to 59 inches; silt loam  
Subsoil—59 to 74 inches; silty clay loam  
Substratum—74 to 87 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udorthents—none assigned;  
Nicholson—3e  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Lawrence—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UrC—Urban land-Alfic Udarents-Otwood complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces, along the Ohio River and perennial and intermittent drains throughout the county. Elevation ranges from 400 to 700 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along the Ohio River and

perennial and intermittent drains throughout the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 400 to 700 feet.

### **Otwood**

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### **Map Unit Composition**

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Otwood and similar soils: 25 percent

### **Properties and Qualities of Alfic Udarents and the Otwood Soil**

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Otwood—moderately well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Otwood—0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Otwood—very low

*Available water capacity:* Alfic Udarents—low (about 5.4 inches to a depth of 27 inches); Otwood—low (about 5.7 inches to a depth of 27 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan or variable

*Potential for surface runoff:* Alfic Udarents—very high; Otwood—high

*Depth to the top of the seasonal high water table:* 1.2 to 2.5 feet or variable

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 20 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

#### **Alfic Udarents**

Soil material—0 to 27 inches; silt loam

Soil material—27 to 46 inches; silt loam

Soil material—46 to 83 inches; silt loam

Soil material—83 to 91 inches; stratified sandy loam to loam

#### **Otwood**

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Subsoil—46 to 83 inches; silt loam

Substratum—83 to 91 inches; stratified sandy loam to loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;  
Otwood—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Otwood—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UsC—Urban land-Alfic Udarents-Otwood complex, 0 to 12 percent slopes, rarely flooded**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces along the Ohio River and perennial and intermittent drains throughout the county. Elevation ranges from 400 to 700 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along the Ohio River and perennial and intermittent drains throughout the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 400 to 700 feet.

#### **Otwood**

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

### ***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Otwood and similar soils: 25 percent

### ***Properties and Qualities of Alfic Udarents and the Otwood Soil***

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Otwood—moderately well drained



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*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent;

Otwood—0.5 to 2.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low;

Otwood—very low

*Available water capacity:* Alfic Udarents—low (about 5.4 inches to a depth of 27 inches); Otwood—low (about 5.7 inches to a depth of 27 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan or variable

*Potential for surface runoff:* Alfic Udarents—very high; Otwood—high

*Depth to the top of the seasonal high water table:* 1.2 to 2.5 feet or variable

*Water table kind:* Perched

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 20 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

#### **Alfic Udarents**

Soil material—0 to 27 inches; silt loam

Soil material—27 to 46 inches; silt loam

Soil material—46 to 83 inches; silt loam

Soil material—83 to 91 inches; stratified sandy loam to loam

#### **Otwood**

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 27 inches; silt loam

Subsoil—27 to 46 inches; silt loam

Subsoil—46 to 83 inches; silt loam

Substratum—83 to 91 inches; stratified sandy loam to loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;

Otwood—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Otwood—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UtC—Urban land-Alfic Udarents-Robertsville complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of



impervious surface. It is on nearly level to sloping terraces along the Ohio River and perennial and intermittent drains and on uplands throughout the county. Elevation ranges from 400 to 700 feet.

### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along the Ohio River and perennial and intermittent drains and on uplands throughout the county. Elevation ranges from 400 to 700 feet.

### **Robertsville**

*Landform:* Depressions on ridge on upland

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone, shale, and dolomite of the Silurian and Ordovician Systems

*Elevation:* 400 to 700 feet

### **Map Unit Composition**

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Robertsville and similar soils: 25 percent

### **Properties and Qualities of Alfic Udarents and the Robertsville Soil**

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—poorly drained to well drained; Robertsville—poorly drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Robertsville—1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Robertsville—very low

*Available water capacity:* Alfic Udarents—low (about 3.2 inches to a depth of 16 inches); Robertsville—low (about 3.3 inches to a depth of 16 inches)

*Depth to restrictive features:* 15 to 36 inches to a fragipan or variable

*Potential for surface runoff:* Alfic Udarents—very high; Robertsville—negligible

*Depth to the top of the seasonal high water table:* 0.0 to 0.8 foot or variable

*Water table kind:* Perched

*Flooding:* None

*Ponding:* Occasional

*Ponding duration:* Brief

*Depth of ponding:* 0.0 to 2.0 feet

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Alfic Udarents—moderate; Robertsville—low

### **Typical Profile**

#### **Alfic Udarents**

Soil material—0 to 16 inches; silt loam

Soil material—16 to 74 inches; silt loam

Soil material—74 to 90 inches; silt loam

### **Robertsville**

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 16 inches; silt loam

Subsoil—16 to 74 inches; silt loam

Substratum—74 to 90 inches; silt loam

#### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;  
Robertsville—5w

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* Yes; hydric criteria—2B3

#### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Robertsville—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UuC—Urban land-Alfic Udarents-Sandview complex, 0 to 12 percent slopes**

#### ***Descriptions and Settings***

##### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over limestone bedrock in the eastern quarter of the county. Elevation ranges from 500 to 800 feet.

##### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in nearly level to sloping upland areas that have been developed over limestone bedrock in the eastern quarter of the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

##### **Sandview**

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and shale of the Ordovician System

*Elevation:* 500 to 800 feet

#### ***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Sandview and similar soils: 25 percent

***Properties and Qualities of Alfic Udarents and the Sandview Soil***

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Sandview—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent;

Sandview—1.0 to 4.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—low to moderately high;

Sandview—moderately high

*Available water capacity:* High (about 11.4 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Alfic Udarents—very high; Sandview—medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

***Typical Profile***

**Alfic Udarents**

Soil material—0 to 41 inches; silt loam

Soil material—41 to 82 inches; silty clay

**Sandview**

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 41 inches; silt loam

Substratum—41 to 82 inches; silty clay

***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;

Sandview—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Sandview—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

**UvC—Urban land-Alfic Udarents-Sciotoville complex, 0 to 12 percent slopes**

***Descriptions and Settings***

**Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of

impervious surface. It is on nearly level to sloping terraces along the Ohio River. Elevation ranges from 380 to 600 feet.

### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along the Ohio River. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

### **Sciotoville**

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### **Map Unit Composition**

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Sciotoville and similar soils: 25 percent

### **Properties and Qualities of Alfic Udarents and the Sciotoville Soil**

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Sciotoville—moderately well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Sciotoville—1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Sciotoville—very low

*Available water capacity:* Alfic Udarents—low (about 3.6 inches to a depth of 18 inches); Sciotoville—low (about 3.9 inches to a depth of 18 inches)

*Depth to restrictive features:* 16 to 38 inches to a fragipan or variable

*Potential for surface runoff:* Alfic Udarents—very high; Sciotoville—medium

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet or variable

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

#### **Alfic Udarents**

Soil material—0 to 18 inches; silt loam

Soil material—18 to 77 inches; silt loam

Soil material—77 to 100 inches; loam

#### **Sciotoville**

Surface layer—0 to 10 inches; silt loam

Subsoil—10 to 18 inches; silt loam

Subsoil—18 to 77 inches; silt loam  
Substratum—77 to 100 inches; loam

***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;  
Sciotoville—3e  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Sciotoville—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

**UwC—Urban land-Alfic Udarents-Shrouts complex, 0 to 12 percent slopes**

***Descriptions and Settings***

**Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is in nearly level to sloping upland areas that have been developed over calcareous shale and dolomitic siltstone in the eastern quarter of the county. Elevation ranges from 500 to 800 feet.

**Alfic Udarents**

Alfic Udarents consist of a moderately deep and deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in nearly level to sloping upland areas that have been developed over calcareous shale and dolomitic siltstone in the eastern quarter of the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

**Shrouts**

*Landform:* Ridge on upland

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Shrouts and similar soils: 25 percent

***Properties and Qualities of Alfic Udarents and the Shrouts Soil***

*Depth class:* Alfic Udarents—moderately deep or deep; Shrouts—moderately deep  
*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Shrouts—well drained  
*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Shrouts—0.5 to 3.0 percent  
*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Shrouts—moderately low  
*Available water capacity:* Low (about 4.7 inches to a depth of 35 inches)  
*Depth to restrictive features:* 20 to 60 inches to paralithic bedrock  
*Potential for surface runoff:* Very high  
*Depth to the top of the seasonal high water table:* More than 6 feet  
*Flooding:* None  
*Ponding:* None  
*Surface layer texture:* Alfic Udarents—silty clay; Shrouts—silt loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Moderate

***Typical Profile***

**Alfic Udarents**

Soil material—0 to 20 inches; silty clay  
Soil material—20 to 35 inches; silty clay  
Paralithic bedrock—35 to 45 inches; weathered bedrock

**Shrouts**

Surface layer—0 to 2 inches; silt loam  
Subsoil—2 to 20 inches; silty clay  
Substratum—20 to 35 inches; silty clay  
Paralithic bedrock—35 to 45 inches; weathered bedrock

***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned; Shrouts—3e  
*Prime and other important farmland:* Not prime farmland  
*Hydric soils:* No

***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Shrouts—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

**UwD—Urban land-Alfic Udarents-Shrouts complex, 12 to 25 percent slopes**

***Descriptions and Settings***

**Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of

impervious surface. It is in sloping to steep upland areas that have been developed over calcareous shale and dolomitic siltstone in the eastern quarter of the county. Elevation ranges from 500 to 800 feet.

### **Alfic Udarents**

Alfic Udarents consist of a moderately deep or deep mixture of topsoil and clayey subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are in sloping to steep upland areas that have been developed over calcareous shale and dolomitic siltstone in the eastern quarter of the county. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 500 to 800 feet.

### **Shrouts**

*Landform:* Hill on upland

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and from the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

### **Map Unit Composition**

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Shrouts and similar soils: 25 percent

### **Properties and Qualities of Alfic Udarents and the Shrouts Soil**

*Depth class:* Alfic Udarents—moderately deep or deep; Shrouts—moderately deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Shrouts—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Shrouts—0.5 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Shrouts—moderately low

*Available water capacity:* Low (about 4.7 inches to a depth of 35 inches)

*Depth to restrictive features:* Alfic Udarents—20 to 60 inches to paralithic bedrock; Shrouts—20 to 40 inches to paralithic bedrock

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Alfic Udarents—silty clay; Shrouts—silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

#### **Alfic Udarents**

Soil material—0 to 20 inches; silty clay

Soil material—20 to 35 inches; silty clay

Paralithic bedrock—35 to 45 inches; weathered bedrock



### **Shrouts**

Surface layer—0 to 2 inches; silt loam

Subsoil—2 to 20 inches; silty clay

Substratum—20 to 35 inches; silty clay

Paralithic bedrock—35 to 45 inches; weathered bedrock

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;

Shrouts—4e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Shrouts—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UxC—Urban land-Alfic Udarents-Weinbach complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces along the Ohio River on the protected side of the flood wall that surrounds Louisville. Elevation ranges from 380 to 600 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil, fragipan, and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along the Ohio River on the protected side of the flood wall that surrounds Louisville. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

#### **Weinbach**

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Urban land: 50 percent



Alfic Udarents and similar soils: 25 percent

Weinbach and similar soils: 25 percent

### ***Properties and Qualities of Alfic Udarents and the Weinbach Soil***

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Weinbach—somewhat poorly drained

*Organic matter content in the surface layer:* Alfic Udarents—0.5 to 2.0 percent; Weinbach—1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—very low to moderately low; Weinbach—very low

*Available water capacity:* Alfic Udarents—low (about 4.2 inches to a depth of 20 inches); Weinbach—low (about 4.3 inches to a depth of 20 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan or variable

*Potential for surface runoff:* Alfic Udarents—very high; Weinbach—high

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet or variable

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

#### **Alfic Udarents**

Soil material—0 to 20 inches; silt loam

Soil material—20 to 41 inches; silt loam

Soil material—41 to 52 inches; silty clay loam

Soil material—52 to 82 inches; stratified loam to silty clay loam

#### **Weinbach**

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 20 inches; silt loam

Subsoil—20 to 41 inches; silt loam

Subsoil—41 to 52 inches; silty clay loam

Substratum—52 to 82 inches; stratified loam to silty clay loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned; Weinbach—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Weinbach—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UyC—Urban land-Alfic Udarents-Wheeling complex, 0 to 12 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces along the Ohio River and its major tributaries, on the protected side of the floodwall that surrounds Louisville. Elevation ranges from 380 to 600 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along the Ohio River and its major tributaries, on the protected side of the floodwall that surrounds Louisville. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

#### **Wheeling**

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Wheeling and similar soils: 25 percent

### ***Properties and Qualities of Alfic Udarents and the Wheeling Soil***

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Wheeling—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Wheeling—1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—low to high; Wheeling—high

*Available water capacity:* Alfic Udarents—moderate (about 6.5 inches to a depth of 60 inches); Wheeling—moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Alfic Udarents—very high; Wheeling—high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

#### **Alfic Udarents**

Soil material—0 to 49 inches; loam

Soil material—49 to 85 inches; stratified sandy loam

#### **Wheeling**

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;

Wheeling—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Wheeling—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **UyD—Urban land-Alfic Udarents-Wheeling complex, 12 to 25 percent slopes**

### ***Descriptions and Settings***

#### **Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on sloping to steep terraces along the Ohio River and its major tributaries, on the protected side of the floodwall that surrounds Louisville. Elevation ranges from 380 to 600 feet.

#### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on sloping to steep terraces along the Ohio River and its major tributaries, on the protected side of the floodwall that surrounds Louisville. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

#### **Wheeling**

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Wheeling and similar soils: 25 percent

***Properties and Qualities of Alfic Udarents and the Wheeling Soil***

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Wheeling—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Wheeling—1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—low to high; Wheeling—high

*Available water capacity:* Alfic Udarents—moderate (about 6.5 inches to a depth of 60 inches); Wheeling—moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Very high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

***Typical Profile***

**Alfic Udarents**

Soil material—0 to 49 inches; loam

Soil material—49 to 85 inches; stratified sandy loam

**Wheeling**

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned; Wheeling—4e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Wheeling—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

**UzC—Urban land-Alfic Udarents-Wheeling complex, 0 to 12 percent slopes, rarely flooded**

***Descriptions and Settings***

**Urban land**

Urban land consists of areas where the land surface has been covered with houses, garages, roads, driveways, sidewalks, buildings, parking lots, and other forms of impervious surface. It is on nearly level to sloping terraces along the Ohio River and its

major tributaries, on the Ohio River side of the floodwall that surrounds Louisville. Elevation ranges from 380 to 600 feet.

### **Alfic Udarents**

Alfic Udarents consist of a very deep mixture of topsoil and subsoil material from the natural soil that has been graded and smoothed in order to build urban structures. They are on nearly level to sloping terraces along the Ohio River and its major tributaries, on the Ohio River side of the floodwall that surrounds Louisville. Alfic Udarents are generally adjacent to the urban structures and gradate to natural soils as the distance from the structures increases. Elevation ranges from 380 to 600 feet.

### **Wheeling**

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### **Map Unit Composition**

Urban land: 50 percent

Alfic Udarents and similar soils: 25 percent

Wheeling and similar soils: 25 percent

### **Properties and Qualities of Alfic Udarents and the Wheeling Soil**

*Depth class:* Very deep

*Drainage class:* Alfic Udarents—somewhat poorly drained to well drained; Wheeling—well drained

*Organic matter content in the surface layer:* Alfic Udarents—0.0 to 0.5 percent; Wheeling—1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Alfic Udarents—low to high; Wheeling—high

*Available water capacity:* Alfic Udarents—moderate (about 6.5 inches to a depth of 60 inches); Wheeling—moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Alfic Udarents—very high; Wheeling—high

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### **Typical Profile**

#### **Alfic Udarents**

Soil material—0 to 49 inches; loam

Soil material—49 to 85 inches; stratified sandy loam

#### **Wheeling**

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* Urban land and Alfic Udarents—none assigned;

Wheeling—3e

*Prime and other important farmland:* Not prime farmland

*Hydric soils:* No

### ***Use and Management Considerations***

**Land Uses:** Urban land—residential and small businesses; Alfic Udarents—areas adjacent to urban structures; Wheeling—green space

Onsite investigation is needed to determine the suitability of any area for specific uses. Refer to the “Use and Management” section for more information.

## **W—Water**

This map unit is composed of 100 percent areas of water. It is not assigned any interpretive groups.

## **WeA—Weinbach silt loam, 0 to 2 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Weinbach and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—3 percent

Sciotoville soils—3 percent

Elk soils—2 percent

Robertsville soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 4.3 inches to a depth of 20 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam  
Subsoil—12 to 20 inches; silt loam  
Subsoil—20 to 41 inches; silt loam  
Subsoil—41 to 52 inches; silty clay loam  
Substratum—52 to 82 inches; stratified loam to silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 2w  
*Prime and other important farmland:* Prime farmland if drained  
*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WeB—Weinbach silt loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear



*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System  
*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Weinbach and similar soils: 90 percent

Contrasting inclusions:

- Otwood soils—3 percent
- Sciotoville soils—3 percent
- Elk soils—2 percent
- Robertsville soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 4.3 inches to a depth of 20 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet

*Water table kind:* Perched

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 20 inches; silt loam

Subsoil—20 to 41 inches; silt loam

Subsoil—41 to 52 inches; silty clay loam

Substratum—52 to 82 inches; stratified loam to silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* Prime farmland if drained

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.



### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WfA—Weinbach silt loam, 0 to 2 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Weinbach and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—3 percent

Sciotoville soils—3 percent

Elk soils—2 percent

Robertsville soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 4.3 inches to a depth of 20 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 20 inches; silt loam

Subsoil—20 to 41 inches; silt loam

Subsoil—41 to 52 inches; silty clay loam

Substratum—52 to 82 inches; stratified loam to silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 2w

*Prime and other important farmland:* Prime farmland if drained

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WfB—Weinbach silt loam, 2 to 6 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Weinbach and similar soils: 90 percent

Contrasting inclusions:

Otwood soils—3 percent

Sciotoville soils—3 percent

Elk soils—2 percent

Robertsville soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Low (about 4.3 inches to a depth of 20 inches)

*Depth to restrictive features:* 20 to 36 inches to a fragipan

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* 1.0 to 1.7 feet

*Water table kind:* Perched

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 12 inches; silt loam

Subsoil—12 to 20 inches; silt loam

Subsoil—20 to 41 inches; silt loam

Subsoil—41 to 52 inches; silty clay loam

Substratum—52 to 82 inches; stratified loam to silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* Prime farmland if drained

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The fragipan restricts the rooting depth.
- The risk of compaction increases when the soil is wet.
- Soil crusting results in a decrease in water infiltration and hinders the emergence of seedlings.
- Flooding may damage crops.
- The seasonal high water table restricts equipment operation, decreases the viability of crops, and interferes with the planting and harvesting of crops.

### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.
- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- The fragipan restricts the rooting depth.
- Compaction may occur when the soil is wet.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WhA—Wheeling loam, 0 to 2 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Nolin soils—3 percent  
Otwood soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep  
*Drainage class:* Well drained  
*Organic matter content in the surface layer:* 1.0 to 3.0 percent  
*Saturated hydraulic conductivity (Ksat):* High  
*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)  
*Depth to restrictive features:* More than 80 inches  
*Potential for surface runoff:* Low  
*Depth to the top of the seasonal high water table:* More than 6 feet  
*Flooding:* None  
*Ponding:* None  
*Surface layer texture:* Loam  
*Calcium carbonate maximum:* 0 percent  
*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; loam  
Subsoil—6 to 49 inches; loam  
Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* 1  
*Prime and other important farmland:* All areas are prime farmland  
*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

- This soil is well suited to cropland.

#### **Pasture and hayland**

- This soil is well suited to pasture and hayland.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WhB—Wheeling loam, 2 to 6 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley  
*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### **Map Unit Composition**

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Nolin soils—3 percent

Otwood soils—3 percent

### **Soil Properties and Qualities**

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### **Typical Profile**

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### **Interpretive Groups**

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### **Use and Management Considerations**

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WhC—Wheeling loam, 6 to 12 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Nolin soils—3 percent

Otwood soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.

### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WhD—Wheeling loam, 12 to 25 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Alford soils—2 percent

Nolin soils—2 percent

Otwood soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None



*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* 4e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Because of steep slopes, the rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased and the use of farm machinery is restricted.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WhF—Wheeling loam, 25 to 55 percent slopes**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—5 percent

Huntington soils—3 percent

Otwood soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* High

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* 7e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Woodland

#### **Cropland**

- This soil is unsuited to cropland.

#### **Pasture and hayland**

- This soil is unsuited to pasture and hayland.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones, stream crossings, and the proper location of haul roads and skid trails and should include best management practices.
- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality, especially in areas on the steeper slopes.
- Flooding may damage haul roads.

- Flooding restricts the safe use of roads by log trucks.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WkA—Wheeling loam, 0 to 2 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Huntington soils—3 percent

Otwood soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* 1

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Flooding may damage crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Flooding may damage pastures.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

### **WkB—Wheeling loam, 2 to 6 percent slopes, occasionally flooded**

#### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

#### ***Map Unit Composition***

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Huntington soils—3 percent

Otwood soils—3 percent

#### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WkC—Wheeling loam, 6 to 12 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Huntington soils—3 percent

Otwood soils—3 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage crops.

### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.

### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WkD—Wheeling loam, 12 to 25 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—5 percent

Huntington soils—3 percent

Otwood soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Occasional

*Flooding duration:* Brief

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* 4e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Hayland, pasture, woodland, and a few small areas of cropland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- Because of steep slopes, the rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased and the use of farm machinery is restricted.
- Flooding may damage crops.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.
- Flooding may damage pastures.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should focus on streamside management zones and stream crossings and should include best management practices.
- Flooding may damage haul roads.
- Flooding restricts the safe use of roads by log trucks.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*



## **WkF—Wheeling loam, 25 to 55 percent slopes, occasionally flooded**

### ***Setting***

*Landform:* Stream terrace in river valley

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

### ***Map Unit Composition***

Wheeling and similar soils: 90 percent

Contrasting inclusions:

Elk soils—4 percent

Alford soils—2 percent

Nolin soils—2 percent

Otwood soils—2 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* High

*Available water capacity:* Moderate (about 6.7 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* High

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* None

*Ponding:* None

*Surface layer texture:* Loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Low

### ***Typical Profile***

Surface layer—0 to 6 inches; loam

Subsoil—6 to 49 inches; loam

Substratum—49 to 85 inches; stratified sandy loam

### ***Interpretive Groups***

*Land capability classification:* 7e

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Woodland

#### **Cropland**

- This soil is unsuited to cropland.

#### **Pasture and hayland**

- This soil is unsuited to pasture and hayland.

## **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality, especially in areas on the steeper slopes.
- A timber harvest plan should focus on the proper location of haul roads and skid trails and should include best management practices.
- The slope may cause erosion during the construction of haul roads and log landings.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WoA—Woolper silt loam, 0 to 2 percent slopes, rarely flooded**

### ***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Toeslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Clayey colluvium derived from limestone of the Silurian or Ordovician Systems

*Elevation:* 450 to 700 feet

### ***Map Unit Composition***

Woolper and similar soils: 80 percent

Contrasting inclusions:

Beasley soils—7 percent

Elk soils—7 percent

Faywood soils—6 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 4.0 to 6.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* High (about 10.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 13 inches; silt loam

Subsoil—13 to 69 inches; silty clay loam

Substratum—69 to 101 inches; silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 1

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The risk of compaction increases when the soil is wet.

#### **Pasture and hayland**

- This soil is well suited to pasture and hayland.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WoB—Woolper silt loam, 2 to 6 percent slopes, rarely flooded**

### ***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Footslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Parent material:* Clayey colluvium derived from limestone of the Silurian or Ordovician Systems

*Elevation:* 450 to 700 feet

### ***Map Unit Composition***

Woolper and similar soils: 80 percent

Contrasting inclusions:

Beasley soils—7 percent

Elk soils—7 percent

Faywood soils—6 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

## Soil Survey of Jefferson County, Kentucky

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 4.0 to 6.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* High (about 10.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Low

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### **Typical Profile**

Surface layer—0 to 13 inches; silt loam

Subsoil—13 to 69 inches; silty clay loam

Substratum—69 to 101 inches; silty clay loam

### **Interpretive Groups**

*Land capability classification:* 2e

*Prime and other important farmland:* All areas are prime farmland

*Hydric soil:* No

### **Use and Management Considerations**

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.

#### **Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

## **WoC—Woolper silt loam, 6 to 12 percent slopes, rarely flooded**

### ***Setting***

*Landform:* Hill on upland

*Landform position (two-dimensional):* Footslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Parent material:* Clayey colluvium derived from limestone and shale of the Silurian and Ordovician Systems

*Elevation:* 450 to 700 feet

### ***Map Unit Composition***

Woolper and similar soils: 80 percent

Contrasting inclusions:

Beasley soils—7 percent

Elk soils—7 percent

Faywood soils—6 percent

### ***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Well drained

*Organic matter content in the surface layer:* 4.0 to 6.0 percent

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Available water capacity:* High (about 10.1 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Medium

*Depth to the top of the seasonal high water table:* More than 6 feet

*Flooding:* Rare

*Ponding:* None

*Surface layer texture:* Silt loam

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* Moderate

### ***Typical Profile***

Surface layer—0 to 13 inches; silt loam

Subsoil—13 to 69 inches; silty clay loam

Substratum—69 to 101 inches; silty clay loam

### ***Interpretive Groups***

*Land capability classification:* 3e

*Prime and other important farmland:* Farmland of statewide importance

*Hydric soil:* No

### ***Use and Management Considerations***

**Land Uses:** Cropland, hayland, pasture, and a few small areas of woodland

#### **Cropland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The rate of surface runoff, the erosion hazard, and the amount of nutrient loss are increased because of the slope.
- The risk of compaction increases when the soil is wet.

**Pasture and hayland**

*Suitability:* Well suited

*Management concerns and considerations:*

- The hazard of erosion, the rate of surface runoff, and the amount of nutrient loss are increased because of the slope.

**Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- The slope creates unsafe operating conditions for log trucks and for equipment used in site preparation and planting.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.

*Refer to the "Use and Management" section for more information.*

**ZpA—Zipp silty clay, 0 to 2 percent slopes, ponded**

***Setting***

*Landform:* Lacustrine depressions on lake plain in river valley

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Clayey, lacustrine deposits of the Quaternary System

*Elevation:* 380 to 800 feet

***Map Unit Composition***

Zipp and similar soils: 90 percent

Contrasting inclusions:

    Melvin soils—3 percent

    Newark soils—3 percent

    Patton soils—2 percent

    Robertsville soils—2 percent

***Soil Properties and Qualities***

*Depth class:* Very deep

*Drainage class:* Very poorly drained

*Organic matter content in the surface layer:* 1.0 to 3.0 percent

*Saturated hydraulic conductivity (Ksat):* Very low

*Available water capacity:* Moderate (about 7.3 inches to a depth of 60 inches)

*Depth to restrictive features:* More than 80 inches

*Potential for surface runoff:* Negligible

*Depth to the top of the seasonal high water table:* 0.0 to 0.8 foot

*Water table kind:* Apparent

*Flooding:* None

*Ponding:* Occasional

*Ponding duration:* Brief

*Depth of ponding:* 0.0 to 2.0 feet

*Surface layer texture:* Silty clay

*Calcium carbonate maximum:* 0 percent

*Shrink-swell potential:* High

### ***Typical Profile***

Surface layer—0 to 11 inches; silty clay

Subsoil—11 to 55 inches; silty clay

Substratum—55 to 85 inches; silty clay

### ***Interpretive Groups***

*Land capability classification:* 5w

*Prime and other important farmland:* Not prime farmland

*Hydric soil:* Yes; hydric criteria—2B3

### ***Use and Management Considerations***

**Land Uses:** Pasture and woodland

#### **Cropland**

- This soil is unsuited to cropland.

#### **Pasture and hayland**

*Suitability:* Moderately suited

*Management concerns and considerations:*

- The seasonal high water table can affect equipment use, grazing patterns, and the viability of grass and legume species.
- Compaction may occur when the soil is wet.

#### **Woodland**

*Suitability:* Well suited

*Management concerns and considerations:*

- Proper planning for timber harvesting is essential in minimizing the potential negative impact to soil and water quality.
- A timber harvest plan should include best management practices.
- Ponding restricts the safe use of roads by log trucks.
- Soil wetness may limit the use of log trucks.
- The low soil strength interferes with the construction of haul roads and log landings and creates unsafe conditions for log trucks.
- The stickiness of the soil restricts the use of equipment for site preparation and planting to the drier periods.

*Refer to the "Use and Management" section for more information.*





# Use and Management of the Soils

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This soil survey is an inventory and evaluation of the soils in the survey area. It can be used to adjust land uses to the limitations and potentials of natural resources and the environment. Also, it can help to prevent soil-related failures in land uses (34).

In preparing a soil survey, soil scientists, conservationists, engineers, and others collect extensive field data about the nature and behavioral characteristics of the soils. They collect data on erosion, droughtiness, flooding, and other factors that affect various soil uses and management. Field experience and collected data on soil properties and performance are used as a basis in predicting soil behavior.

Information in this section can be used to plan the use and management of soils for crops and pasture; as forestland; as sites for buildings, sanitary facilities, highways and other transportation systems, and parks and other recreational facilities; for agricultural waste management; and as wildlife habitat. It can be used to identify the potentials and limitations of each soil for specific land uses and to help prevent construction failures caused by unfavorable soil properties.

Planners and others using soil survey information can evaluate the effect of specific land uses on productivity and on the environment in all or part of the survey area. The survey can help planners to maintain or create a land use pattern in harmony with the natural soil.

Contractors can use this survey to locate sources of sand and gravel, roadfill, and topsoil. They can use it to identify areas where bedrock, wetness, or very firm soil layers can cause difficulty in excavation.

Health officials, highway officials, engineers, and others may also find this survey useful. The survey can help them plan the safe disposal of wastes and locate sites for pavements, sidewalks, campgrounds, playgrounds, lawns, and trees and shrubs.

## Interpretive Ratings

The interpretive tables in this survey rate the soils in the survey area for various uses. Many of the tables identify the limitations that affect specified uses and indicate the severity of those limitations. The ratings in these tables are both verbal and numerical.

### Rating Class Terms

Rating classes are expressed in the tables in terms that indicate the extent to which the soils are limited by all of the soil features that affect a specified use or in terms that indicate the suitability of the soils for the use. Thus, the tables may show limitation classes or suitability classes. Terms for the limitation classes are *not limited*, *slightly limited*, *somewhat limited*, and *very limited*. The suitability ratings are expressed as *well suited*, *moderately well suited*, *poorly suited*, and *unsuited* or as *good*, *fair*, and *poor*.

### Numerical Ratings

Numerical ratings in the tables indicate the relative severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact

on the use and the point at which the soil feature is not a limitation. The limitations appear in order from the most limiting to the least limiting. Thus, if more than one limitation is identified, the most severe limitation is listed first and the least severe one is listed last.

## **Crops and Pasture**

General management needed for crops and pasture is suggested in this section. The estimated yields of the main crops and pasture plants are listed, and the system of land capability classification used by the Natural Resources Conservation Service is explained.

Planners of management systems for individual fields or farms should consider the detailed information given in the description of each soil under the heading "Detailed Soil Map Units." Specific information can be obtained from the local office of the Natural Resources Conservation Service or the Cooperative Extension Service. Additional information on crops in Jefferson County can be found at the Kentucky Agricultural Statistics Service website.

In 2005, about 11,175 acres in Jefferson County was used for crops (24, 25). Of this acreage, about 800 acres was in alfalfa, 7,600 acres was in other hay crops, 75 acres was in tobacco, 1,200 acres was in soybeans, and 1,500 acres was in corn.

Wheat is the most common close-grown crop in the county. Wheat, barley, oats, and rye are generally grown as winter cover crops in tobacco fields.

Deep and very deep, well drained soils on uplands and terraces are suited to most of the crops grown in the county. These soils include Alford, Beasley, Crider, Elk, Sandview, Wheeling, and Woolper soils that have slopes of less than 6 percent. Generally, crops can be planted and harvested earlier on these soils than crops that are grown on other soils in the survey area.

Most of the deep and very deep, well drained upland soils are suited to orchards and nursery plants. Soils in low positions on the landscape, where frost is frequent and air drainage is poor, generally are poorly suited to early vegetables, small fruits, and orchard crops.

About 20 percent of the soils in Jefferson County are well suited to row crops. Most of these soils are on bottomland that is subject to flooding, on stream terraces, and on ridgetops. The broad, nearly level and gently sloping terraces and ridgetops are suited to grain crops. Deep and very deep, nearly level and gently sloping, well drained soils, such as Alford, Beasley, Crider, Elk, Sandview, Wheeling, and Woolper, are suited to tobacco and alfalfa. During years of normal rainfall, the moderately well drained Nicholson, Otwood, Sciotoville, and Tilsit soils produce high yields of tobacco. Soils on terraces and uplands that have slopes of 6 to 15 percent and soils on flood plains that have a drainage problem and thus are subject to frequent flooding are commonly used for hay and pasture. In addition to land that is currently being cropped, some idle land, pasture, or woodland also has potential for use as cropland. Food production could be increased by applying the latest technology to all of the cropland in the county. The information in this soil survey can facilitate the application of such technology.

The local office of the Natural Resources Conservation Service or the Kentucky Cooperative Extension Service can provide the latest information on and recommendations for growing crops.

## **Managing Cropland**

The main management needs for cropland and pasture in Jefferson County are measures that help to control erosion, maintain and improve soil fertility and tilth, and minimize the water pollution caused by runoff containing soil particles, nutrients, organic matter, pesticides, and herbicides.

Water erosion is the primary management concern for the cropland and

pastureland in the county. It is a hazard if slopes are more than 2 percent, except in some nearly level areas on flood plains and terraces. As slope increases, the hazard of erosion also increases. Nearly all of the crop and pastureland in the survey area has slopes ranging from 2 to 40 percent. Boonewood, Elk, Lawrence, Lindside, Melvin, Newark, Nolin, Otwood, Robertsville, Sciotoville, Weinbach, Wheeling, and Woolper soils are examples of nearly level soils on flood plains and terraces that have slopes of 2 percent or less. Crider, Lawrence, and Nicholson soils are examples of nearly level soils on uplands.

Erosion of the surface layer is damaging because it reduces the productivity of the soil and can result in the sedimentation of streams, ponds, lakes, and rivers. Soil productivity is reduced as organic matter and plant nutrients are lost and part of the subsoil is incorporated into the plow layer. Surface erosion is especially damaging on soils that have clayey subsoils, such as Beasley, Caneyville, Faywood, Shrouts, and Woolper soils. Erosion is also hazardous for soils that have a fragipan in the subsoil that limits the root zone. These soils include Lawrence, Nicholson, Otwood, Robertsville, Sciotoville, Tilsit, and Weinbach soils. Surface erosion is also a concern on Caneyville, Faywood, Gilpin, and Shrouts soils that are moderately deep to bedrock and on Weikert soils that are shallow to bedrock. The pollution caused by erosion reduces the quality of water for municipal and recreational uses, such as swimming, for livestock watering, for fishing, and for wildlife.

Erosion-control measures generally help to provide a protective vegetative cover, reduce the rate of runoff, and increase the rate of water infiltration. A cropping system that keeps vegetation on the soil for extended periods can generally keep soil losses to an amount that does not reduce the productivity of the soil. On livestock farms, a cropping system that includes grasses and legumes helps to control erosion on sloping land, provides nitrogen, and improves tilth for subsequent crops.

Erosion is controlled in Jefferson County through such cultural practices as conservation tillage, a cropping sequence that includes grasses and legumes, cover crops, and a rotation grazing system. These natural practices are used instead of using structural measures, such as terraces and diversions. These cultural practices generally are better suited to the irregularly shaped slopes in many areas of Beasley, Faywood, and Shrouts soils. Contour farming and contour stripcropping are better suited to soils that have smooth, uniform slopes, such as Crider, Nicholson, and Sandview soils. Information about erosion-control measures is available at the local office of the Natural Resources Conservation Service.

Soil drainage is a major management concern on some of the soils in Jefferson County used for crops and pasture. Conformance with regulations influencing wetlands may require special permits and extra planning. Unless drained, the somewhat poorly drained soils in the county are so wet that the production of crops is restricted. These soils include Lawrence, Newark, and Weinbach soils. Because Melvin, Patton, Robertsville, and Zipp soils are poorly drained and wet, the production of crops on these soils is very restricted. Areas of Patton, Robertsville, and Zipp soils are ponded with surface water for several months during the year. These soils are also discussed in the "Hydric Soils" section.

Small areas of the wetter soils in depressions and along drainageways are commonly included with the moderately well drained Boonewood, Lindside, Nicholson, Otwood, Sciotoville, and Tilsit soils. Drainage systems are not generally necessary for these moderately well drained soils. Drainage systems have previously been installed in some of the areas of the somewhat poorly drained Newark soils. The somewhat poorly drained Lawrence and Weinbach soils have a hard, compact, brittle fragipan in the subsoil, which limits the depth to which tile drains can function. Open ditches are used in some areas of Lawrence and Weinbach soils to remove excess water. In areas of the moderately well drained soils, a drainage system generally is not needed. However, crops that can withstand wetness should be selected for planting.

Soil fertility is medium or high in all of the soils in Jefferson County used for crops and pasture. Although many of the upland soils formed in parent material that was high in bases, leaching has occurred in the surface layer and upper part of the subsoil in many of these soils, thus causing them to be acidic. Applications of ground limestone are needed to raise the pH level sufficiently for the production of many crops on upland soils and also on soils on flood plains and terraces. The levels of phosphorus and potassium are naturally low in most of the soils in the survey area. Additions of lime and fertilizer should be based on the results of soil tests, the needs of the crop, and the expected yield levels. The Cooperative Extension Service can help to determine the kind and amount of fertilizer and lime needed and the proper method of application.

Tilth is an important factor affecting the germination of seeds and the infiltration of water into the soil. Soils that have good tilth have a surface layer that is granular and porous. Some of the soils in the survey area that are used for crops have a surface layer of silt loam that is light in color and low in organic matter content. Generally, the structure of such soils is weak. A surface crust forms during periods of heavy rainfall. The crust is hard when dry and nearly impervious to water. It reduces the rate of water infiltration and increases the runoff rate. Some of the eroded soils in sloping areas have lost part of their original surface layer. This has caused poor tilth because when the plow layer is mixed with the clayey subsoil the clay content increases. Other soils have been cropped continuously for long periods. This practice has removed much of the organic matter and destroyed the surface structure. Applying a system of rotating fields and adding manure and other organic material to the soil help to control erosion and to improve soil structure, permeability, and soil tilth.

In 2005, there were more than 3,700 cattle and calves in Jefferson County (25). Although not in large numbers, sheep and hogs are also raised in the survey area. Most of the hayland and pasture in the county supports a mixture of grasses and legumes. Much of the hay is grown in a hay and pasture rotation system. With the exception of alfalfa and clovers, most hay is rolled into large, round bales when harvested.

Since about 25 percent of the farm income in Jefferson County is derived from the sale of livestock or livestock products, a high-quality forage program is necessary. A successful livestock program depends on a large supply of farm-grown feed of good quality. A good forage program can furnish as much as 78 percent of the feed required for beef cattle and 66 percent of that required for dairy cattle (16). On much of the pasture in the survey area, renovation, brush control, and measures that prevent overgrazing are needed.

The suitability of the soils in the county to produce grasses and legumes varies widely because of differences in the depth to bedrock or other root-limiting layers, drainage, the available water capacity, and many other properties. The selection of forage species is important, and the suitability of the different soils to the selected species should be considered.

The nearly level and gently sloping soils that are deep and well drained should be used for the most productive crops, such as corn silage, alfalfa, and a mixture of alfalfa and orchardgrass or alfalfa and timothy. On the steeper soils, sod-forming grasses, such as tall fescue and bluegrass are needed to help control soil erosion. Alfalfa should be grown with cool-season grasses in areas where the soil is well drained and is at least 2 feet deep over bedrock. The more poorly drained soils or those that are less than 2 feet deep over bedrock are suited to clover-grass mixtures or to pure stands of clover or grasses. Legumes can be established through renovation in areas that support sod-forming grasses.

Tall fescue is an important cool-season grass that is suited to a wide range of soil conditions. It is grown for both hay and pasture. From August to November, the fescue commonly is allowed to accumulate in the field. It is grazed in late fall and in winter.

Applications of nitrogen fertilizer help to achieve the maximum production of fescue in the field.

Warm-season grasses, which are planted from early in April to late May, alleviate the “summer slump” of cool-season grasses, such as tall fescue and Kentucky bluegrass. Warm-season grasses grow well during the summer, especially from mid-June to September, when the cool season-grasses stop growing. Examples of warm-season grasses are big bluestem, switchgrass, indiangrass, and Caucasian bluestem.

Renovation can increase forage yields in areas that have a good stand of grass. It involves partially destroying the sod, applying lime and fertilizer, and seeding the desirable forage species. Adding legumes to these grass stands helps to provide high-quality feed, increases summer production, and supplies nitrogen to the grasses. Under the growing conditions in Kentucky, alfalfa can fix 200 to 300 pounds of nitrogen per acre per year; red clover, 100 to 200 pounds; and ladino clover, 100 to 150 pounds. An acre of Korean lespedeza, vetch, or other annual forage legumes can fix 75 to 100 pounds of nitrogen per year (17).

Additional information about managing pasture and hayland can be obtained from the local office of the Natural Resources Conservation Service or the Kentucky Cooperative Extension Service.

### **Yields per Acre**

The average yields per acre that can be expected of the principal crops and hay and pasture under a high level of management are shown in table 5, parts I and II. In any given year, yields may be higher or lower than those indicated in the table because of variations in rainfall and other climatic factors. The land capability classification of map units in the survey area also is shown in the tables.

The yields are based mainly on the experience and records of farmers, conservationists, and extension agents. Available yield data from nearby counties and results of field trials and demonstrations also are considered.

The management needed to obtain the indicated yields of the various crops depends on the kind of soil and the crop. Management can include drainage, erosion control, and protection from flooding; the proper planting and seeding rates; suitable high-yielding crop varieties; appropriate and timely tillage; control of weeds, plant diseases, and harmful insects; favorable soil reaction and optimum levels of nitrogen, phosphorus, potassium, and trace elements for each crop; effective use of crop residue, barnyard manure, and green manure crops; and harvesting that ensures the smallest possible loss (7).

The estimated yields reflect the productive capacity of each soil for each of the principal crops. Yields are likely to increase as new production technology is developed. The productivity of a given soil compared with that of other soils, however, is not likely to change.

Crops other than those shown in table 5 are grown in the survey area, but estimated yields are not listed because the acreage of such crops is small. The local office of the Natural Resources Conservation Service or of the Cooperative Extension Service can provide information about the management and productivity of the soils for those crops.

### **Land Capability Classification**

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management (47). The criteria used in grouping the soils do not include major and generally expensive land forming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a



substitute for interpretations designed to show suitability and limitations of groups of soils for forestland or for engineering purposes.

In the capability system, soils are generally grouped at three levels—capability class, subclass, and unit. Only class and subclass are used in this survey.

*Capability classes*, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use. The classes are defined as follows:

Class 1 soils have slight limitations that restrict their use.

Class 2 soils have moderate limitations that restrict the choice of plants or that require moderate conservation practices.

Class 3 soils have severe limitations that restrict the choice of plants or that require special conservation practices, or both.

Class 4 soils have very severe limitations that restrict the choice of plants or that require very careful management, or both.

Class 5 soils are subject to little or no erosion but have other limitations, impractical to remove, that restrict their use mainly to pasture, forestland, or wildlife habitat.

Class 6 soils have severe limitations that make them unsuitable for cultivation and that restrict their use mainly to grazing, forestland, or wildlife habitat.

Class 7 soils have very severe limitations that make them unsuitable for cultivation and that restrict their use mainly to forestland or wildlife habitat.

Class 8 soils and miscellaneous areas have limitations that preclude commercial plant production and that restrict their use to recreational purposes, wildlife habitat, watershed, or esthetic purposes.

*Capability subclasses* are soil groups within one class. They are designated by adding a small letter, *e*, *w*, or *s*, to the class numeral, for example, 2*e*. The letter *e* shows that the main hazard is the risk of erosion unless close-growing plant cover is maintained; *w* shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); and *s* shows that the soil is limited mainly because it is shallow, droughty, or stony.

In class 1 there are no subclasses because the soils of this class have few limitations. Class 5 contains only the subclasses indicated by *w* or *s* because the soils in class 5 are subject to little or no erosion. They have other limitations that restrict their use to pasture, forestland, wildlife habitat, or recreation.

The acreage of soils in each capability class or subclass is shown in table 7. The capability classification of map units in this survey area is given in the section “Detailed Soil Map Units” and in the yields table.

## Prime Farmland and Farmland of Statewide Importance

Prime farmland is one of several kinds of important farmland defined by the U.S. Department of Agriculture. It is of major importance in meeting the Nation’s short- and long-range needs for food and fiber. Because the supply of high-quality farmland is limited, the U.S. Department of Agriculture recognizes that responsible levels of government, as well as individuals, should encourage and facilitate the wise use of our Nation’s prime farmland.

Prime farmland, as defined by the U.S. Department of Agriculture, is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is available for these uses. It could be cultivated land, pastureland, forestland, or other land, but it is not urban or built-up land or water areas. The soil qualities, growing season, and moisture supply are those needed for the soil to economically produce sustained high yields of crops when proper management, including water management, and acceptable farming methods are applied. In general, prime farmland has an adequate and dependable supply of

moisture from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, an acceptable salt and sodium content, and few or no rocks. It is permeable to water and air. It is not excessively erodible or saturated with water for long periods, and it either is not frequently flooded during the growing season or is protected from flooding. Slope ranges mainly from 0 to 6 percent. More detailed information about the criteria for prime farmland is available at the local office of the Natural Resources Conservation Service.

About 40,075 acres in Jefferson County, or 15.7 percent to the total acreage, meets the soil requirements for prime farmland.

A recent trend in land use in some parts of the survey area has been the loss of some prime farmland to industrial and urban uses. The loss of prime farmland to other uses puts pressure on marginal lands, which generally are more erodible, droughty, and less productive and cannot be easily cultivated.

The map units in the survey area that are considered prime farmland are listed in table 8. This list does not constitute a recommendation for a particular land use. On some soils included in the list, measures that overcome a hazard or limitation, such as flooding, wetness, and droughtiness, are needed. Onsite evaluation is needed to determine whether or not the hazard or limitation has been overcome by corrective measures. The extent of each listed map unit is shown in table 4. The location is shown on the detailed soil maps. The soil qualities that affect use and management are described under the heading "Detailed Soil Map Units."

Farmland of statewide importance is land that, in addition to prime farmland, is important for the production of food, feed, fiber, and oilseed crops. Generally, farmland of statewide importance includes those soils that almost meet the requirements for prime farmland and that economically produce a high yield of crops when treated and managed according to acceptable farming methods. The map units in the survey area that are considered farmland of statewide importance are listed in table 6. The extent of each listed map unit is shown in table 4. The location is shown on the detailed soil maps. The soil qualities that affect use and management are described under the heading "Detailed Soil Map Units."

About 13,345 acres in Jefferson County, or 5.2 percent to the total acreage, meets the soil requirements for additional farmland of statewide importance.

## Hydric Soils

In this section, hydric soils are defined and described and the hydric soils in the survey area are listed.

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (14, 30, 37, 38). Criteria for each of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (18). These soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or non-hydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (19). These criteria are used to identify a

phase of a soil series that normally is associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (46) and "Keys to Soil Taxonomy" (46) and in the "Soil Survey Manual" (50).

If soils are wet enough for a long enough period to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils in this survey area are specified in "Field Indicators of Hydric Soils in the United States" (20).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

The following map units meet the definition of hydric soils and, in addition, have at least one of the hydric soil indicators. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (20, 30).

Me	Melvin silt loam, occasionally flooded
Mf	Melvin silt loam, frequently flooded
Pa	Patton silt loam, ponded
RoA	Robertsville silt loam, 0 to 2 percent slopes
RpA	Robertsville silt loam, 0 to 2 percent slopes, ponded
ZpA	Zipp silty clay, 0 to 2 percent slopes, ponded

Map units that are made up of hydric soils may have small areas, or inclusions, of non-hydric soils in the higher positions on the landform, and map units made up of non-hydric soils may have inclusions of hydric soils in the lower positions on the landform.

The following map units, in general, do not meet the definition of hydric soils because they do not have one of the hydric soil indicators. A portion of these map units, however, may include hydric soils. Onsite investigation is recommended to determine whether hydric soils occur and the location of the included hydric soils.

LaA	Lawrence silt loam, 0 to 2 percent slopes
LaB	Lawrence silt loam, 2 to 6 percent slopes
LbA	Lawrence silt loam, 0 to 2 percent slopes, occasionally flooded
LbB	Lawrence silt loam, 2 to 6 percent slopes, occasionally flooded
Ne	Newark silt loam, occasionally flooded
Nf	Newark silt loam, frequently flooded
WeA	Weinbach silt loam, 0 to 2 percent slopes
WeB	Weinbach silt loam, 2 to 6 percent slopes
WfA	Weinbach silt loam, 0 to 2 percent slopes, occasionally flooded
WfB	Weinbach silt loam, 2 to 6 percent slopes, occasionally flooded

## **Agricultural Waste Management**

Soil properties are important considerations in areas where soils are used as sites for the treatment and disposal of organic waste and wastewater. Selection of soils with properties that favor waste management can help to prevent environmental damage.

Table 8, parts I, II and III, show the degree and kind of soil limitations affecting the treatment of agricultural waste, including municipal and food-processing wastewater



and effluent from lagoons or storage ponds. Municipal wastewater is the waste stream from a municipality. It contains domestic waste and may contain industrial waste. It may have received primary or secondary treatment. It is rarely untreated sewage. Food-processing wastewater results from the preparation of fruits, vegetables, milk, cheese, and meats for public consumption. In places it is high in content of sodium and chloride. In the context of these tables, the effluent in lagoons and storage ponds is from facilities used to treat or store food-processing wastewater or domestic or animal waste. Domestic and food-processing wastewater is very dilute, and the effluent from the facilities that treat or store it commonly is very low in content of carbonaceous and nitrogenous material; the content of nitrogen commonly ranges from 10 to 30 milligrams per liter. The wastewater from animal waste treatment lagoons or storage ponds, however, has much higher concentrations of these materials, mainly because the manure has not been diluted as much as the domestic waste. The content of nitrogen in this wastewater generally ranges from 50 to 2,000 milligrams per liter. When wastewater is applied, checks should be made to ensure that nitrogen, heavy metals, and salts are not added in excessive amounts.

The ratings in the table are for waste management systems that not only dispose of and treat organic waste or wastewater but also are beneficial to crops (application of manure and food-processing waste, application of sewage sludge, and disposal of wastewater by irrigation) and for waste management systems that are designed only for the purpose of wastewater disposal and treatment (overland flow of wastewater, rapid infiltration of wastewater, and slow rate treatment of wastewater).

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect agricultural waste management. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Slightly limited* indicates that the soil has features that are generally favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

*Application of manure and food-processing waste* not only disposes of waste material but also can improve crop production by increasing the supply of nutrients in the soils where the material is applied. Manure is the excrement of livestock and poultry, and food-processing waste is damaged fruit and vegetables and the peelings, stems, leaves, pits, and soil particles removed in food preparation. The manure and food-processing waste are either solid, slurry, or liquid. Their nitrogen content varies. A high content of nitrogen limits the application rate. Toxic or otherwise dangerous wastes, such as those mixed with the lye used in food processing, are not considered in the ratings.

The ratings are based on the soil properties that affect absorption, plant growth, microbial activity, erodibility, the rate at which the waste is applied, and the method by which the waste is applied. The properties that affect absorption include permeability, depth to a water table, ponding, the sodium adsorption ratio, depth to bedrock or a cemented pan, and available water capacity. The properties that affect plant growth

and microbial activity include reaction, the sodium adsorption ratio, salinity, and bulk density. The wind erodibility group, the soil erodibility factor K, and slope are considered in estimating the likelihood that wind erosion or water erosion will transport the waste material from the application site. Stones, cobbles, a water table, ponding, and flooding can hinder the application of waste. Permanently frozen soils are unsuitable for waste treatment.

*Application of sewage sludge* not only disposes of waste material but also can improve crop production by increasing the supply of nutrients in the soils where the material is applied. In the context of this table, sewage sludge is the residual product of the treatment of municipal sewage. The solid component consists mainly of cell mass, primarily bacteria cells that developed during secondary treatment and have incorporated soluble organics into their own bodies. The sludge has small amounts of sand, silt, and other solid debris. The content of nitrogen varies. Some sludge has constituents that are toxic to plants or hazardous to the food chain, such as heavy metals and exotic organic compounds, and should be analyzed chemically prior to use.

The content of water in the sludge ranges from about 98 percent to less than 40 percent. The sludge is considered liquid if it is more than about 90 percent water, slurry if it is about 50 to 90 percent water, and solid if it is less than about 50 percent water.

The ratings in the table are based on the soil properties that affect absorption, plant growth, microbial activity, erodibility, the rate at which the sludge is applied, and the method by which the sludge is applied. The properties that affect absorption, plant growth, and microbial activity include permeability, depth to a water table, ponding, the sodium adsorption ratio, depth to bedrock or a cemented pan, available water capacity, reaction, salinity, and bulk density. The wind erodibility group, the soil erodibility factor K, and slope are considered in estimating the likelihood that wind erosion or water erosion will transport the waste material from the application site. Stones, cobbles, a water table, ponding, and flooding can hinder the application of sludge. Permanently frozen soils are unsuitable for waste treatment.

*Disposal of wastewater by irrigation* not only disposes of municipal wastewater and wastewater from food-processing plants, lagoons, and storage ponds but also can improve crop production by increasing the amount of water available to crops. The ratings in the table are based on the soil properties that affect the design, construction, management, and performance of the irrigation system. The properties that affect design and management include the sodium adsorption ratio, depth to a water table, ponding, available water capacity, permeability, slope, and flooding. The properties that affect construction include stones, cobbles, depth to bedrock or a cemented pan, depth to a water table, and ponding. The properties that affect performance include depth to bedrock or a cemented pan, bulk density, the sodium adsorption ratio, salinity, reaction, and the cation-exchange capacity, which is used to estimate the capacity of a soil to adsorb heavy metals. Permanently frozen soils are not suitable for disposal of wastewater by irrigation.

*Overland flow of wastewater* is a process in which wastewater is applied to the upper reaches of sloped land and allowed to flow across vegetated surfaces, sometimes called terraces, to runoff-collection ditches. The length of the run generally is 150 to 300 feet. The application rate ranges from 2.5 to 16.0 inches per week. It commonly exceeds the rate needed for irrigation of cropland. The wastewater leaves solids and nutrients on the vegetated surfaces as it flows downslope in a thin film. Most of the water reaches the collection ditch, some is lost through evapotranspiration, and a small amount may percolate to the ground water.

The ratings in the table are based on the soil properties that affect absorption, plant growth, microbial activity, and the design and construction of the system. Reaction and the cation-exchange capacity affect absorption. Reaction, salinity, and the sodium

adsorption ratio affect plant growth and microbial activity. Slope, permeability, depth to a water table, ponding, flooding, depth to bedrock or a cemented pan, stones, and cobbles affect design and construction. Permanently frozen soils are unsuitable for waste treatment.

*Rapid infiltration of wastewater* is a process in which wastewater applied in a level basin at a rate of 4 to 120 inches per week percolates through the soil. The wastewater may eventually reach the ground water. The application rate commonly exceeds the rate needed for irrigation of cropland. Vegetation is not a necessary part of the treatment; hence, the basins may or may not be vegetated. The thickness of the soil material needed for proper treatment of the wastewater is more than 72 inches. As a result, geologic and hydrologic investigation is needed to ensure proper design and performance and to determine the risk of ground-water pollution.

The ratings in the table are based on the soil properties that affect the risk of pollution and the design, construction, and performance of the system. Depth to a water table, ponding, flooding, and depth to bedrock or a cemented pan affect the risk of pollution and the design and construction of the system. Slope, stones, and cobbles also affect design and construction. Permeability and reaction affect performance. Permanently frozen soils are unsuitable for waste treatment.

*Slow rate treatment of wastewater* is a process in which wastewater is applied to land at a rate normally between 0.5 inch and 4.0 inches per week. The application rate commonly exceeds the rate needed for irrigation of cropland. The applied wastewater is treated as it moves through the soil. Much of the treated water may percolate to the ground water, and some enters the atmosphere through evapotranspiration. The applied water generally is not allowed to run off the surface. Waterlogging is prevented either through control of the application rate or through the use of tile drains, or both.

The ratings in the table are based on the soil properties that affect absorption, plant growth, microbial activity, erodibility, and the application of waste. The properties that affect absorption include the sodium adsorption ratio, depth to a water table, ponding, available water capacity, permeability, depth to bedrock or a cemented pan, reaction, the cation-exchange capacity, and slope. Reaction, the sodium adsorption ratio, salinity, and bulk density affect plant growth and microbial activity. The wind erodibility group, the soil erodibility factor K, and slope are considered in estimating the likelihood of wind erosion or water erosion. Stones, cobbles, a water table, ponding, and flooding can hinder the application of waste. Permanently frozen soils are unsuitable for waste treatment.

## **Forest Productivity and Management**

About 31,000 acres in Jefferson County or about 12 percent of the total acreage is forestland (41). The survey area is in the Western Mesophytic Forest Region. The characteristic trees in this region are American beech, American sycamore, black locust, black oak, black walnut, chestnut oak, chinkapin oak, hickory, northern red oak, red maple, sugar maple, white ash, white oak, and yellow-poplar. The dominant forest types are oak-hickory, oak-pine, and loblolly-shortleaf groups. Additional forestry information for Jefferson County is available at the Kentucky Division of Forestry website and the U.S. Forest Service website.

The forestland tracts in the survey area are generally privately owned, are owned by the Louisville Metro government, or are commercial holdings that range from a few acres to many thousand acres in size. Harvesting of timber is usually done by local loggers using the selective-cut method on most small tracts and both selective-cut and clear-cut methods on the larger tracts. Most of the forestland can produce 50 cubic feet or more of wood per acre per year, but actual production is about 33 cubic feet. The production rate is lower where most of the forestland is unmanaged, not well stocked, and cut over too often. It is also because when loggers cut trees, they tend to

remove the best trees and leave inferior ones to reseed the cutover areas. In addition, many forestland tracts in farms are open to livestock, resulting in further damage to the woodland. The woodland can be improved by removing low-quality trees from fully stocked and understocked stands of all sizes, replanting after harvest, and restricting livestock access.

Soils vary in their ability to produce productive forestland. Depth, fertility, texture, and the available water capacity influence tree growth (40). Elevation, aspect, and climate determine the species of trees that can grow on a site. Available water capacity and depth of the root zone are major influences on tree growth. Elevation and aspect are of particular importance in the Knobs Physiographic Region, such as in the southwestern part of Jefferson County. The section "Detailed Soil Map Units" provides information on suitability and management for the soil map units in the county.

The tables in this section can help forest owners or managers plan the use of soils for wood crops. Table 9 shows the potential productivity of the soils for wood crops, and table 10 rates the soils according to the limitations that affect various aspects of forest management. Additional forestry information is available at the Kentucky Division of Forestry website.

### Forest Productivity

In table 9, the *potential productivity* of merchantable or *common trees* on a soil is expressed as a site index and as a volume number. The *site index* is the average height, in feet, that dominant and codominant trees of a given species attain in a specified number of years. The site index applies to fully stocked, even-aged, unmanaged stands (3, 5, 6, 8, 9, 10, 12, 15, 28, 31, 32, 33, 35). Commonly grown trees are those that forest managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value, and marketability. More detailed information regarding site index is available in the "National Forestry Manual," which is available at the local office of the Natural Resources Conservation Service or on the Internet.

The *volume of wood fiber*, a number, is the yield likely to be produced by the most important tree species. This number, expressed as cubic feet per acre per year and calculated at the age of culmination of the mean annual increment (CMAI), indicates the amount of fiber produced in a fully stocked, even-aged, unmanaged stand. *Trees to manage* are those that are preferred for planting, seeding, or natural regeneration and those that remain in the stand after thinning or partial harvest.

### Forest Management

In table 10, parts I through IV, interpretive ratings are given for various aspects of forest management. The ratings are both verbal and numerical.

Some rating class terms indicate the degree to which the soils are suited to a specified forest management practice. *Well suited* indicates that the soil has features that are favorable for the specified practice and has no limitations. Good performance can be expected, and little or no maintenance is needed. *Moderately well suited* indicates that the soil has features that are moderately favorable for the specified practice. One or more soil properties are less than desirable, and fair performance can be expected. Some maintenance is needed. *Poorly suited* indicates that the soil has one or more properties that are unfavorable for the specified practice. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. *Unsuited* indicates that the expected performance of the soil is unacceptable for the specified practice or that extreme measures are needed to overcome the undesirable soil properties.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact

on the specified forest management practice (1.00) and the point at which the soil feature is not a limitation (0.00).

Rating class terms for fire damage and seedling mortality are expressed as *low*, *moderate*, and *high*. Where these terms are used, the numerical ratings indicate gradations between the point at which the potential for fire damage or seedling mortality is highest (1.00) and the point at which the potential is lowest (0.00).

The paragraphs that follow indicate the soil properties considered in rating the soils for forest management practices. More detailed information about the criteria used in the ratings is available in the "National Forestry Manual," which is available at the local office of the Natural Resources Conservation Service or on the Internet.

For *limitations affecting construction of haul roads and log landings*, the ratings are based on slope, flooding, permafrost, plasticity index, the hazard of soil slippage, content of sand, the Unified classification, rock fragments on or below the surface, depth to a restrictive layer that is indurated, depth to a water table, and ponding. The limitations are described as slight, moderate, or severe. A rating of *slight* indicates that no significant limitations affect construction activities, *moderate* indicates that one or more limitations can cause some difficulty in construction, and *severe* indicates that one or more limitations can make construction very difficult or very costly.

The ratings of *suitability for log landings* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, ponding, flooding, and the hazard of soil slippage. The soils are described as well suited, moderately suited, or poorly suited to use as log landings.

Ratings in the column *soil rutting hazard* are based on depth to a water table, rock fragments on or below the surface, the Unified classification, depth to a restrictive layer, and slope. Ruts form as a result of the operation of forest equipment. The hazard is described as slight, moderate, or severe. A rating of *slight* indicates that the soil is subject to little or no rutting, *moderate* indicates that rutting is likely, and *severe* indicates that ruts form readily.

Ratings in the column *hazard of off-road or off-trail erosion* are based on slope and on soil erodibility factor K. The soil loss is caused by sheet or rill erosion in off-road or off-trail areas where 50 to 75 percent of the surface has been exposed by logging, grazing, mining, or other kinds of disturbance. The hazard is described as slight, moderate, severe, or very severe. A rating of *slight* indicates that erosion is unlikely under ordinary climatic conditions; *moderate* indicates that some erosion is likely and that erosion-control measures may be needed; *severe* indicates that erosion is very likely and that erosion-control measures, including revegetation of bare areas, are advised; and *very severe* indicates that significant erosion is expected, loss of soil productivity and off-site damage are likely, and erosion-control measures are costly and generally impractical.

Ratings in the column *hazard of erosion on roads and trails* are based on the soil erodibility factor K, slope, and content of rock fragments. The ratings apply to unsurfaced roads and trails. The hazard is described as slight, moderate, or severe. A rating of *slight* indicates that little or no erosion is likely; *moderate* indicates that some erosion is likely, that the roads or trails may require occasional maintenance; and that simple erosion-control measures are needed; and *severe* indicates that significant erosion is expected, that the roads or trails require frequent maintenance, and that costly erosion-control measures are needed.

Ratings in the column *suitability for roads (natural surface)* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, ponding, flooding, and the hazard of soil slippage. The ratings indicate the suitability for using the natural surface of the soil for roads. The soils are described as well suited, moderately well suited, or poorly suited to this use.

Ratings in the columns *suitability for hand planting* and *suitability for mechanical planting* are based on slope, depth to a restrictive layer, content of sand, plasticity



index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, moderately well suited, poorly suited, or unsuited to these methods of planting. It is assumed that necessary site preparation is completed before seedlings are planted.

Ratings in the column *suitability for use of harvesting equipment* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, and ponding. The soils are described as well suited, moderately well suited, or poorly suited to this use.

Ratings in the column *potential for damage to soil by fire* are based on texture of the surface layer, content of rock fragments and organic matter in the surface layer, thickness of the surface layer, and slope. The soils are described as having a low, moderate, or high potential for this kind of damage. The ratings indicate an evaluation of the potential impact of prescribed fires or wildfires that are intense enough to remove the duff layer and consume organic matter in the surface layer.

Ratings in the column *potential for seedling mortality* are based on flooding, ponding, depth to a water table, content of lime, reaction, salinity, available water capacity, soil moisture regime, soil temperature regime, aspect, and slope. The soils are described as having a low, moderate, or high potential for seedling mortality.

## Recreation

The soils of the survey area are rated in table 11, parts I and II, according to limitations that affect their suitability for recreation. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the recreational uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Slightly limited* indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The ratings in the table are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in this table can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, sanitary facilities, and water management.

*Camp areas* require site preparation, such as shaping and leveling the tent and

parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas.

The soil properties that affect the performance of the areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

*Picnic areas* are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking areas. The ratings are based on the soil properties that affect the ease of developing picnic areas and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of picnic areas. For good trafficability, the surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

*Playgrounds* require soils that are nearly level, are free of stones, and can withstand intensive foot traffic. The ratings are based on the soil properties that affect the ease of developing playgrounds and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of playgrounds. For good trafficability, the surface of the playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

*Paths and trails* for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These properties are stoniness, depth to a water table, ponding, flooding, slope, and texture of the surface layer.

*Off-road motorcycle trails* require little or no site preparation. They are not covered with surfacing material or vegetation. Considerable compaction of the soil material is likely. The ratings are based on the soil properties that influence erodibility, trafficability, dustiness, and the ease of revegetation. These properties are stoniness, slope, depth to a water table, ponding, flooding, and texture of the surface layer.

*Golf fairways* are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

## Wildlife Habitat

The most important wildlife species in Jefferson County are cottontail rabbit, gray squirrel, fox squirrel, raccoon, opossum, skunk, red fox, coyote, wild turkey, bobwhite quail, mourning dove, and white-tailed deer. A number of predatory birds are also found in the county. They include barn owl, Cooper's hawk, eastern screech owl, great horned owl, and red-tailed hawk. The survey area also has many other species of birds and mammals. It has about 19 species of mammals, 136 species of birds, and 30 species of amphibians and reptiles. Although the types of habitat required by wildlife vary, deer and squirrels generally use woodland habitat; rabbits, quail, and doves use openland habitat; and ducks and geese use wetland habitat. Additional wildlife information for the county is available at the Kentucky Fish and Wildlife Service website.

Photographers, birdwatchers, sportsmen, and others are interested in the flora and fauna of Jefferson County. The ponds and streams in the survey area are inhabited by a variety of fish, including warm-water game fish, panfish, and rough fish. Examples are largemouth bass and bluegill.

Successful management of wildlife habitat requires a suitable combination of food, cover, and water. The lack of any one of these necessities, an imbalance between them, or an inadequate distribution of them can severely limit or eliminate the population of a desirable wildlife species.

Soils affect the kind and amount of vegetation that is available to wildlife as food and cover. They also affect the construction of water impoundments. The kind and abundance of wildlife depend largely on the amount and distribution of food, cover, and water. Wildlife habitat can be created or improved by planting appropriate vegetation, by maintaining the existing plant cover, or by promoting the natural establishment of desirable plants. Additional wildlife information can be found at the Kentucky Fish and Wildlife Service website.

In table 12, the soils in the survey area are rated according to their potential for providing habitat for various kinds of wildlife. This information can be used in planning parks, wildlife refuges, nature study areas, and other developments for wildlife; in selecting soils that are suitable for establishing, improving, or maintaining specific elements of wildlife habitat; and in determining the intensity of management needed for each element of the habitat.

The potential of the soil is rated good, fair, poor, or very poor. A rating of *good* indicates that the element or kind of habitat is easily established, improved, or maintained. Few or no limitations affect management, and satisfactory results can be expected. A rating of *fair* indicates that the element or kind of habitat can be established, improved, or maintained in most places. Moderately intensive management is required for satisfactory results. A rating of *poor* indicates that limitations are severe for the designated element or kind of habitat. Habitat can be created, improved, or maintained in most places, but management is difficult and must be intensive. A rating of *very poor* indicates that restrictions for the element or kind of habitat are very severe and that unsatisfactory results can be expected. Creating, improving, or maintaining habitat is impractical or impossible.

The elements of wildlife habitat are described in the following paragraphs.

*Grain and seed crops* are domestic grains and seed-producing herbaceous plants. Soil properties and features that affect the growth of grain and seed crops are depth of the root zone, texture of the surface layer, available water capacity, wetness, slope, surface stoniness, and flooding. Soil temperature and soil moisture also are considerations. Examples of grain and seed crops are corn, wheat, oats, and barley.

*Grasses and legumes* are domestic perennial grasses and herbaceous legumes. Soil properties and features that affect the growth of grasses and legumes are depth of the root zone, texture of the surface layer, available water capacity, wetness, surface



stoniness, flooding, and slope. Soil temperature and soil moisture also are considerations. Examples of grasses and legumes are fescue, lovegrass, bromegrass, clover, and alfalfa.

*Wild herbaceous plants* are native or naturally established grasses and forbs, including weeds. Soil properties and features that affect the growth of these plants are depth of the root zone, texture of the surface layer, available water capacity, wetness, surface stoniness, and flooding. Soil temperature and soil moisture also are considerations. Examples of wild herbaceous plants are bluestem, goldenrod, beggarweed, wheatgrass, and grama.

*Hardwood trees* and woody understory produce nuts or other fruit, buds, catkins, twigs, bark, and foliage. Soil properties and features that affect the growth of hardwood trees and shrubs are depth of the root zone, available water capacity, and wetness. Examples of these plants are oak, poplar, cherry, sweetgum, apple, hawthorn, dogwood, hickory, blackberry, and blueberry. Examples of fruit-producing shrubs that are suitable for planting on soils rated *good* are Russian-olive, autumn olive, and crabapple.

*Coniferous plants* furnish browse and seeds. Soil properties and features that affect the growth of coniferous trees, shrubs, and ground cover are depth of the root zone, available water capacity, and wetness. Examples of coniferous plants are pine, spruce, fir, cedar, and juniper.

*Wetland plants* are annual and perennial wild herbaceous plants that grow on moist or wet sites. Submerged or floating aquatic plants are excluded. Soil properties and features affecting wetland plants are texture of the surface layer, wetness, reaction, salinity, slope, and surface stoniness. Examples of wetland plants are smartweed, wild millet, wildrice, saltgrass, cordgrass, rushes, sedges, and reeds.

*Shallow water areas* have an average depth of less than 5 feet. Some are naturally wet areas. Others are created by dams, levees, or other water-control structures. Soil properties and features affecting shallow water areas are depth to bedrock, wetness, surface stoniness, slope, and permeability. Examples of shallow water areas are marshes, waterfowl feeding areas, and ponds.

The habitat for various kinds of wildlife is described in the following paragraphs.

*Habitat for openland wildlife* consists of cropland, pasture, meadows, and areas that are overgrown with grasses, herbs, shrubs, and vines. These areas produce grain and seed crops, grasses and legumes, and wild herbaceous plants. Wildlife attracted to these areas include bobwhite quail, meadowlark, field sparrow, cottontail, and red fox.

*Habitat for woodland wildlife* consists of areas of deciduous and/or coniferous plants and associated grasses, legumes, and wild herbaceous plants. Wildlife attracted to these areas include wild turkey, woodcock, thrushes, woodpeckers, squirrels, raccoon, and deer.

*Habitat for wetland wildlife* consists of open, marshy or swampy shallow water areas. Some of the wildlife attracted to such areas are ducks, geese, herons, shore birds, muskrat, mink, and beaver.

## Engineering

This section provides information for planning land uses related to urban development and to water management. Soils are rated for various uses, and the most limiting features are identified. Ratings are given for building site development, sanitary facilities, construction materials, and water management (39). The ratings are based on observed performance of the soils and on the estimated data and test data in the "Soil Properties" section.

*Information in this section is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally*

*apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.*

*The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.*

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this section. Local ordinances and regulations should be considered in planning, in site selection, and in design.

Soil properties, site features, and observed performance were considered in determining the ratings in this section. During the fieldwork for this soil survey, determinations were made about particle-size distribution, liquid limit, plasticity index, soil reaction, depth to bedrock, hardness of bedrock within 5 to 7 feet of the surface, soil wetness, depth to a water table, ponding, slope, likelihood of flooding, natural soil structure aggregation, and soil density. Data were collected about kinds of clay minerals, mineralogy of the sand and silt fractions, and the kinds of adsorbed cations. Estimates were made for erodibility, permeability, corrosivity, shrink-swell potential, available water capacity, and other behavioral characteristics affecting engineering uses.

This information can be used to evaluate the potential of areas for residential, commercial, industrial, and recreational uses; make preliminary estimates of construction conditions; evaluate alternative routes for roads, streets, highways, pipelines, and underground cables; evaluate alternative sites for sanitary landfills, septic tank absorption fields, and sewage lagoons; plan detailed onsite investigations of soils and geology; locate potential sources of gravel, sand, earthfill, and topsoil; plan drainage systems, irrigation systems, ponds, terraces, and other structures for soil and water conservation; and predict performance of proposed small structures and pavements by comparing the performance of existing similar structures on the same or similar soils.

The information in the tables, along with the soil maps, the soil descriptions, and other data provided in this survey, can be used to make additional interpretations.

Some of the terms used in this soil survey have a special meaning in soil science and are defined in the Glossary.

### **Building Site Development**

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. Table 13, parts I and II, show the degree and kind of soil limitations that affect dwellings with and without basements, small commercial buildings, local roads and streets, shallow excavations, and lawns and landscaping.

The ratings in the table are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Slightly limited* indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

*Dwellings* are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet. The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

*Small commercial buildings* are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification). The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

*Local roads and streets* have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a water table, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a water table, and ponding.

*Shallow excavations* are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to the seasonal high water table, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to the water table, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

*Lawns and landscaping* require soils on which turf and ornamental trees and shrubs can be established and maintained. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to

a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer.

### Sanitary Facilities

Table 14, parts I and II, show the degree and kind of soil limitations that affect septic tank absorption fields, sewage lagoons, sanitary landfills, and daily cover for landfill. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Slightly limited* indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

*Septic tank absorption fields* are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 60 inches is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Permeability, depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

*Sewage lagoons* are shallow ponds constructed to hold sewage while aerobic bacteria decompose the solid and liquid wastes. Lagoons should have a nearly level floor surrounded by cut slopes or embankments of compacted soil. Nearly impervious soil material for the lagoon floor and sides is required to minimize seepage and contamination of ground water. Considered in the ratings are slope, permeability, depth to a water table, ponding, depth to bedrock or a cemented pan, flooding, large stones, and content of organic matter.

Soil permeability is a critical property affecting the suitability for sewage lagoons. Most porous soils eventually become sealed when they are used as sites for sewage lagoons. Until sealing occurs, however, the hazard of pollution is severe. Soils that have a permeability rate of more than 2 inches per hour are too porous for the proper functioning of sewage lagoons. In these soils, seepage of the effluent can result in contamination of the ground water. Ground-water contamination is also a hazard if fractured bedrock is within a depth of 40 inches, if the water table is high enough to raise the level of sewage in the lagoon, or if floodwater overtops the lagoon.

A high content of organic matter is detrimental to proper functioning of the lagoon because it inhibits aerobic activity. Slope, bedrock, and cemented pans can cause construction problems, and large stones can hinder compaction of the lagoon floor. If the lagoon is to be uniformly deep throughout, the slope must be gentle enough and the soil material must be thick enough over bedrock or a cemented pan to make land smoothing practical.

A *trench sanitary landfill* is an area where solid waste is placed in successive layers in an excavated trench. The waste is spread, compacted, and covered daily with a thin layer of soil excavated at the site. When the trench is full, a final cover of soil material at least 2 feet thick is placed over the landfill. The ratings in the table are based on the soil properties that affect the risk of pollution, the ease of excavation, trafficability, and revegetation. These properties include permeability, depth to bedrock or a cemented pan, depth to a water table, ponding, slope, flooding, texture, stones and boulders, highly organic layers, soil reaction, and content of salts and sodium. Unless otherwise stated, the ratings apply only to that part of the soil within a depth of about 6 feet. For deeper trenches, onsite investigation may be needed.

Hard, nonrippable bedrock, creviced bedrock, or highly permeable strata in or directly below the proposed trench bottom can affect the ease of excavation and the hazard of ground-water pollution. Slope affects construction of the trenches and the movement of surface water around the landfill. It also affects the construction and performance of roads in areas of the landfill.

Soil texture and consistence affect the ease with which the trench is dug and the ease with which the soil can be used as daily or final cover. They determine the workability of the soil when dry and when wet. Soils that are plastic and sticky when wet are difficult to excavate, grade, or compact and are difficult to place as a uniformly thick cover over a layer of refuse.

The soil material used as the final cover for a trench landfill should be suitable for plants. It should not have excess sodium or salts and should not be too acid. The surface layer generally has the best workability, the highest content of organic matter, and the best potential for plants. Material from the surface layer should be stockpiled for use as the final cover.

In an *area sanitary landfill*, solid waste is placed in successive layers on the surface of the soil. The waste is spread, compacted, and covered daily with a thin layer of soil from a source away from the site. A final cover of soil material at least 2 feet thick is placed over the completed landfill. The ratings in the table are based on the soil properties that affect trafficability and the risk of pollution. These properties include flooding, permeability, depth to a water table, ponding, slope, and depth to bedrock or a cemented pan.

Flooding is a serious problem because it can result in pollution in areas downstream from the landfill. If permeability is too rapid or if fractured bedrock, a fractured cemented pan, or the water table is close to the surface, the leachate can contaminate the water supply. Slope is a consideration because of the extra grading required to maintain roads in the steeper areas of the landfill. Also, leachate may flow along the surface of the soils in the steeper areas and cause difficult seepage problems.

*Daily cover for landfill* is the soil material that is used to cover compacted solid waste in an area sanitary landfill. The soil material is obtained offsite, transported to the landfill, and spread over the waste. The ratings in the table also apply to the final cover for a landfill. They are based on the soil properties that affect workability, the ease of digging, and the ease of moving and spreading the material over the refuse daily during wet and dry periods. These properties include soil texture, depth to a water table, ponding, rock fragments, slope, depth to bedrock or a cemented pan, reaction, and content of salts, sodium, or lime.

Loamy or silty soils that are free of large stones and excess gravel are the best



cover for a landfill. Clayey soils may be sticky and difficult to spread; sandy soils are subject to wind erosion.

Slope affects the ease of excavation and of moving the cover material. Also, it can influence runoff, erosion, and reclamation of the borrow area.

After soil material has been removed, the soil material remaining in the borrow area must be thick enough over bedrock, a cemented pan, or the water table to permit revegetation. The soil material used as the final cover for a landfill should be suitable for plants. It should not have excess sodium, salts, or lime and should not be too acid.

### Construction Materials

Table 15, parts I and II, give information about the soils as potential sources of gravel, sand, topsoil, reclamation material, and roadfill. Normal compaction, minor processing, and other standard construction practices are assumed.

The soils are rated *good*, *fair*, or *poor* as potential sources of topsoil, reclamation material, and roadfill. The features that limit the soils as sources of these materials are specified in the table. The numerical ratings given after the specified features indicate the degree to which the features limit the soils as sources of topsoil, reclamation material, or roadfill. The lower the number, the greater the limitation.

The soils are rated as a *probable* or *improbable* source of sand and gravel. A rating of *probable* means that the source material is likely to be in or below the soil. The numerical ratings in these columns indicate the degree of probability. The number 0.00 indicates that the soil is an improbable source. A number between 0.00 and 1.00 indicates the degree to which the soil is a probable source of sand or gravel.

*Sand* and *gravel* are natural aggregates suitable for commercial use with a minimum of processing. They are used in many kinds of construction. Specifications for each use vary widely. In table 15, only the probability of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material. The properties used to evaluate the soil as a source of sand or gravel are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the lowest layer of the soil contains sand or gravel, the soil is rated as a probable source regardless of thickness. The assumption is that the sand or gravel layer below the depth of observation exceeds the minimum thickness.

*Reclamation material* is used in areas that have been drastically disturbed by surface mining or similar activities. When these areas are reclaimed, layers of soil material or unconsolidated geological material, or both, are replaced in a vertical sequence. The reconstructed soil favors plant growth. The ratings in the table do not apply to quarries and other mined areas that require an offsite source of reconstruction material. The ratings are based on the soil properties that affect erosion and stability of the surface and the productive potential of the reconstructed soil. These properties include the content of sodium, salts, and calcium carbonate; reaction; available water capacity; erodibility; texture; content of rock fragments; and content of organic matter and other features that affect fertility.

*Roadfill* is soil material that is excavated in one place and used in road embankments in another place. In this table, the soils are rated as a source of roadfill for low embankments, generally less than 6 feet high and less exacting in design than higher embankments.

The ratings are for the whole soil, from the surface to a depth of about 5 feet. It is assumed that soil layers will be mixed when the soil material is excavated and spread.

The ratings are based on the amount of suitable material and on soil properties that affect the ease of excavation and the performance of the material after it is in place. The thickness of the suitable material is a major consideration. The ease of excavation is affected by large stones, depth to a water table, and slope. How well the soil

performs in place after it has been compacted and drained is determined by its strength (as inferred from the AASHTO classification of the soil) and linear extensibility (shrink-swell potential).

*Topsoil* is used to cover an area so that vegetation can be established and maintained. The upper 40 inches of a soil is evaluated for use as topsoil. Also evaluated is the reclamation potential of the borrow area. The ratings are based on the soil properties that affect plant growth; the ease of excavating, loading, and spreading the material; and reclamation of the borrow area. Toxic substances, soil reaction, and the properties that are inferred from soil texture, such as available water capacity and fertility, affect plant growth. The ease of excavating, loading, and spreading is affected by rock fragments, slope, depth to a water table, soil texture, and thickness of suitable material. Reclamation of the borrow area is affected by slope, depth to a water table, rock fragments, depth to bedrock or a cemented pan, and toxic material.

The surface layer of most soils is generally preferred for topsoil because of its organic matter content. Organic matter greatly increases the absorption and retention of moisture and nutrients for plant growth.

## Water Management

Table 16 gives information on the soil properties and site features that affect water management. The degree and kind of soil limitations are given for pond reservoir areas; embankments, dikes, and levees; and aquifer-fed excavated ponds. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

*Pond reservoir areas* hold water behind a dam or embankment. Soils best suited to this use have low seepage potential in the upper 60 inches. The seepage potential is determined by the permeability of the soil and the depth to fractured bedrock or other permeable material. Excessive slope can affect the storage capacity of the reservoir area.

*Embankments, dikes, and levees* are raised structures of soil material, generally less than 20 feet high, constructed to impound water or to protect land against overflow. Embankments that have zoned construction (core and shell) are not considered. In this table, the soils are rated as a source of material for embankment fill. The ratings apply to the soil material below the surface layer to a depth of about 5 feet. It is assumed that soil layers will be uniformly mixed and compacted during construction.

The ratings do not indicate the ability of the natural soil to support an embankment. Soil properties to a depth even greater than the height of the embankment can affect performance and safety of the embankment. Generally, deeper onsite investigation is needed to determine these properties.

Soil material in embankments must be resistant to seepage, piping, and erosion

and have favorable compaction characteristics. Unfavorable features include less than 5 feet of suitable material and a high content of stones or boulders, organic matter, or salts or sodium. A high water table affects the amount of usable material. It also affects trafficability.

*Aquifer-fed excavated ponds* are pits or dugouts that extend to a ground-water aquifer or to a depth below a permanent water table. Excluded are ponds that are fed only by surface runoff and embankment ponds that impound water 3 feet or more above the original surface. Excavated ponds are affected by depth to a permanent water table, permeability of the aquifer, and quality of the water as inferred from the salinity of the soil. Depth to bedrock and the content of large stones affect the ease of excavation.



# Soil Properties

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Data relating to soil properties are collected during the course of the soil survey.

Soil properties are ascertained by field examination of the soils and by laboratory index testing of some benchmark soils. Established standard procedures are followed. During the survey, many shallow borings are made and examined to identify and classify the soils and to delineate them on the soil maps. Samples are taken from some typical profiles and tested in the laboratory to determine particle-size distribution, plasticity, and compaction characteristics.

Estimates of soil properties are based on field examinations and on laboratory tests of samples of similar soils in nearby areas (22). Tests verify field observations, verify properties that cannot be estimated accurately by field observation, and help to characterize key soils.

The estimates of soil properties are shown in tables. They include engineering index properties, physical and chemical properties, and pertinent soil and water features.

## Engineering Index Properties

Table 17 gives the engineering classifications and the range of index properties for the layers of each soil in the survey area.

*Depth* to the upper and lower boundaries of each layer is indicated.

*Texture* is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly." Textural terms are defined in the Glossary.

*Classification* of the soils is determined according to the Unified soil classification system (2) and the system adopted by the American Association of State Highway and Transportation Officials (1).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, 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 particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group

index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

*Rock fragments* larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

*Percentage (of soil particles) passing designated sieves* is the percentage of the soil fraction less than 3 inches in diameter based on an oven-dry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

*Liquid limit* and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

The estimates of particle-size distribution, liquid limit, and plasticity index are generally rounded to the nearest 5 percent. Thus, if the ranges of gradation and Atterberg limits extend a marginal amount (1 or 2 percentage points) across classification boundaries, the classification in the marginal zone is generally omitted in the table.

## Physical Properties

Table 18 shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

*Depth* to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

*Sand* as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In table 18, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

*Silt* as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In table 18, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

*Clay* as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In table 18, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, permeability, plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

*Moist bulk density* is the weight of soil (oven-dry) per unit volume. Volume is

measured when the soil is at field moisture capacity, that is, the moisture content at  $\frac{1}{3}$ - or  $\frac{1}{10}$ -bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

*Saturated hydraulic conductivity* refers to the ability of a soil to transmit water or air. The term "permeability," as used in soil surveys, indicates saturated hydraulic conductivity ( $K_{sat}$ ). The estimates in the table indicate the rate of water movement, in micrometers per second (um/sec), when the soil is saturated. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Permeability is considered in the design of soil drainage systems and septic tank absorption fields.

*Available water capacity* refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

*Linear extensibility* refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at  $\frac{1}{3}$ - or  $\frac{1}{10}$ -bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. Volume change is influenced by the amount and type of clay minerals in the soil.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

*Organic matter* is the plant and animal residue in the soil at various stages of decomposition. In table 18, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of organic matter in a soil can be maintained by returning crop residue to the soil. Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

*Erosion factors* are shown in table 18 as the K factor ( $K_w$  and  $K_f$ ) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and permeability. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

*Erosion factor  $K_w$*  indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

*Erosion factor K<sub>f</sub>* indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

*Erosion factor T* is an estimate of the maximum average annual rate of soil erosion by wind or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

*Wind erodibility groups* are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are as follows:

1. Coarse sands, sands, fine sands, and very fine sands.
2. Loamy coarse sands, loamy sands, loamy fine sands, loamy very fine sands, ash material, and sapric soil material.
3. Coarse sandy loams, sandy loams, fine sandy loams, and very fine sandy loams.
- 4L. Calcareous loams, silt loams, clay loams, and silty clay loams.
4. Clays, silty clays, noncalcareous clay loams, and silty clay loams that are more than 35 percent clay.
5. Noncalcareous loams and silt loams that are less than 20 percent clay and sandy clay loams, sandy clays, and hemic soil material.
6. Noncalcareous loams and silt loams that are more than 20 percent clay and noncalcareous clay loams that are less than 35 percent clay.
7. Silts, noncalcareous silty clay loams that are less than 35 percent clay, and fibric soil material.
8. Soils that are not subject to wind erosion because of coarse fragments on the surface or because of surface wetness.

## Chemical Properties

Table 19 shows estimates of some chemical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

*Depth* to the upper and lower boundaries of each layer is indicated.

*Cation-exchange capacity* is the total amount of extractable bases that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. Soils having a low cation-exchange capacity hold fewer cations and may require more frequent applications of fertilizer than soils having a high cation-exchange capacity. The ability to retain cations reduces the hazard of ground-water pollution.

*Effective cation-exchange capacity* refers to the sum of extractable bases plus aluminum expressed in terms of milliequivalents per 100 grams of soil. It is determined for soils that have pH of less than 5.5.

*Soil reaction* is a measure of acidity or alkalinity. The pH of each soil horizon is based on many field tests. For many soils, values have been verified by laboratory analyses. Soil reaction is important in selecting crops and other plants, in evaluating soil amendments for fertility and stabilization, and in determining the risk of corrosion.

*Calcium carbonate* equivalent is the percent of carbonates, by weight, in the fraction of the soil less than 2 millimeters in size. The availability of plant nutrients is influenced by the amount of carbonates in the soil. Incorporating nitrogen fertilizer into calcareous soils helps to prevent nitrite accumulation and ammonium-N volatilization.

## Water Features

Table 20 gives estimates of various water features. The estimates are used in land use planning that involves engineering considerations.

*Hydrologic soil groups* are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The four hydrologic soil groups are:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas.

The *months* in the table indicate the portion of the year in which the feature is most likely to be a concern.

*Water table* refers to a saturated zone in the soil. Table 20 indicates, by month, depth to the top (*upper limit*) and base (*lower limit*) of the saturated zone in most years. Estimates of the upper and lower limits are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors or mottles (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

*Ponding* is standing water in a closed depression. Unless a drainage system is installed, the water is removed only by percolation, transpiration, or evaporation. Table 20 indicates *surface water depth* and the *duration* and *frequency* of ponding. Duration is expressed as *very brief* if less than 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, rare, occasional, and frequent. *None* means that ponding is not probable; *rare* that it is unlikely but possible under unusual weather conditions (the chance of ponding is nearly 0 percent to 5 percent in any year); *occasional* that it occurs, on the average, once or less in 2 years (the chance of ponding is 5 to 50 percent in any year); and *frequent* that it occurs, on the average, more than once in 2 years (the chance of ponding is more than 50 percent in any year).

*Flooding* is the temporary inundation of an area caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

*Duration* and *frequency* are estimated. Duration is expressed as *extremely brief* if 0.1 hour to 4 hours, *very brief* if 4 hours to 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, very rare,



rare, occasional, frequent, and very frequent. *None* means that flooding is not probable; *very rare* that it is very unlikely but possible under extremely unusual weather conditions (the chance of flooding is less than 1 percent in any year); *rare* that it is unlikely but possible under unusual weather conditions (the chance of flooding is 1 to 5 percent in any year); *occasional* that it occurs infrequently under normal weather conditions (the chance of flooding is 5 to 50 percent in any year); *frequent* that it is likely to occur often under normal weather conditions (the chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year); and *very frequent* that it is likely to occur very often under normal weather conditions (the chance of flooding is more than 50 percent in all months of any year).

The information is based on evidence in the soil profile, namely thin strata of gravel, sand, silt, or clay deposited by floodwater; irregular decrease in organic matter content with increasing depth; and little or no horizon development.

Also considered are local information about the extent and levels of flooding and the relation of each soil on the landscape to historic floods. Information on the extent of flooding based on soil data is less specific than that provided by detailed engineering surveys that delineate flood-prone areas at specific flood frequency levels.

## Soil Features

Table 21 gives estimates of various soil features. The estimates are used in land use planning that involves engineering considerations.

A *restrictive layer* is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers. The table indicates the hardness and thickness of the restrictive layer, both of which significantly affect the ease of excavation. *Depth to top* is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

*Subsidence* is the settlement of organic soils or of saturated mineral soils of very low density. Subsidence generally results from either desiccation and shrinkage or oxidation of organic material, or both, following drainage. Subsidence takes place gradually, usually over a period of several years. The table shows the expected initial subsidence, which usually is a result of drainage, and total subsidence, which results from a combination of factors.

*Potential for frost action* is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, permeability, content of organic matter, and depth to the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a high water table in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage to pavements and other rigid structures.

*Risk of corrosion* pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel

or concrete in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low*, *moderate*, or *high*, is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion also is expressed as *low*, *moderate*, or *high*. It is based on soil texture, acidity, and amount of sulfates in the saturation extract.





# Classification of the Soils

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The system of soil classification used by the National Cooperative Soil Survey has six categories (44, 46). Beginning with the broadest, these categories are the order, suborder, great group, subgroup, family, and series. Classification is based on soil properties observed in the field or inferred from those observations or from laboratory measurements. Table 22 shows the classification of the soils in the survey area. The categories are defined in the following paragraphs.

**ORDER.** Twelve soil orders are recognized. The differences among orders reflect the dominant soil-forming processes and the degree of soil formation. Each order is identified by a word ending in *sol*. An example is Alfisol.

**SUBORDER.** Each order is divided into suborders primarily on the basis of properties that influence soil genesis and are important to plant growth or properties that reflect the most important variables within the orders. The last syllable in the name of a suborder indicates the order. An example is Udalf (*Ud*, meaning humid, plus *alf*, from Alfisol).

**GREAT GROUP.** Each suborder is divided into great groups on the basis of close similarities in kind, arrangement, and degree of development of pedogenic horizons; soil moisture and temperature regimes; type of saturation; and base status. Each great group is identified by the name of a suborder and by a prefix that indicates a property of the soil. An example is Hapludalfs (*Hapl*, meaning minimal horizonation, plus *udalf*, the suborder of the Alfisols that has a udic moisture regime).

**SUBGROUP.** Each great group has a typic subgroup. Other subgroups are intergrades or extragrades. The typic subgroup is the central concept of the great group; it is not necessarily the most extensive. Intergrades are transitions to other orders, suborders, or great groups. Extragrades have some properties that are not representative of the great group but do not indicate transitions to any other taxonomic class. Each subgroup is identified by one or more adjectives preceding the name of the great group. The adjective *Typic* identifies the subgroup that typifies the great group. An example is Typic Hapludalfs.

**FAMILY.** Families are established within a subgroup on the basis of physical and chemical properties and other characteristics that affect management. Generally, the properties are those of horizons below plow depth where there is much biological activity. Among the properties and characteristics considered are particle size, mineral content, soil temperature regime, soil depth, and reaction. A family name consists of the name of a subgroup preceded by terms that indicate soil properties. An example is fine-silty, mixed, active, mesic Typic Hapludalfs.

**SERIES.** The series consists of soils within a family that have horizons similar in color, texture, structure, reaction, consistence, mineral and chemical composition, and arrangement in the profile.

## Soil Series and Their Morphology

In this section, each soil series recognized in the survey area is described. Characteristics of the soil and the material in which it formed are identified for each series. A pedon, a small three-dimensional area of soil that is typical of the series in the survey area is described. The detailed description of each soil horizon follows

standards in the “Soil Survey Manual” (50). Many of the technical terms used in the descriptions are defined in “Soil Taxonomy” (44) and in “Keys to Soil Taxonomy” (46). Unless otherwise indicated, colors in the descriptions are for moist soil. Following the pedon description is the range of important characteristics of the soils in the series.

## ***Alfic Udarents***

Refer to the description of the detailed soil map unit.

## ***Alford Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Knobs

*Map unit(s):* AfB—Alford silt loam, 2 to 6 percent slopes; AfC—Alford silt loam, 6 to 12 percent slopes; AfD—Alford silt loam, 12 to 25 percent slopes; AfF—Alford silt loam, 25 to 50 percent slopes

*Depth class:* Very deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Hill on upland and ridge on upland

*Landform position(s) (two-dimensional):* Summit, shoulder, and backslope

*Landform position(s) (three-dimensional):* Interfluvium and side slope

*Parent material:* Thick, fine-silty loess over silty residuum weathered from siltstone and shale of the Muldraugh, Holtsclaw, Nancy, Kenwood, and New Providence Members of the Borden Formation; Mississippian System

*Elevation:* 400 to 900 feet

*Slope:* 2 to 50 percent

*Taxonomic classification:* Fine-silty, mixed, superactive, mesic Ultic Hapludalfs

### **Typical Pedon**

Alford silt loam, 6 to 12 percent slopes; on a woodland ridgetop about 1 mile northeast of the intersection of State Highway 1931 and Arnoldtown Road, about 1,000 feet southwest of Arnoldtown Road on a woodland ridgetop; USGS Louisville West, Kentucky topographic quadrangle; lat. 38 degrees 8 minutes 10.00 seconds N. and long. 85 degrees 49 minutes 22.00 seconds W.; UTM Zone 16, 603167 meters easting, 4221566 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 7 inches; dark grayish brown (10YR 4/2) silt loam, light gray (10YR 7/2) dry; moderate fine and medium granular structure; very friable; many fine to coarse roots throughout; strongly acid, pH 5.5; abrupt wavy boundary. (4 to 11 inches thick)

BA—7 to 11 inches; yellowish brown (10YR 5/6) silt loam; moderate fine and medium subangular blocky structure; friable; many fine to coarse roots throughout; strongly acid, pH 5.5; clear wavy boundary. (0 to 5 inches thick)

Bt1—11 to 25 inches; yellowish red (5YR 4/6) silt loam; moderate medium subangular blocky structure; friable; common fine to coarse roots throughout; 35 percent distinct clay films; very strongly acid, pH 5.0; clear wavy boundary.

Bt2—25 to 39 inches; 70 percent yellowish red (5YR 4/6) and 30 percent yellowish brown (10YR 5/6) silt loam; moderate medium and coarse subangular blocky structure; friable; few fine to coarse roots throughout; 55 percent distinct clay films; very strongly acid, pH 5.0; clear wavy boundary.

Bt3—39 to 55 inches; 60 percent strong brown (7.5YR 5/6) and 40 percent yellowish brown (10YR 5/6) silt loam; moderate medium subangular blocky structure; friable;

## Soil Survey of Jefferson County, Kentucky

few fine to coarse roots throughout; 35 percent distinct clay films; very strongly acid, pH 5.0; clear wavy boundary. (combined thickness of the Bt horizons ranges from 40 to 70 inches)

2Bt4—55 to 66 inches; 60 percent yellowish brown (10YR 5/4), 30 percent light brownish gray (10YR 6/2), and 10 percent strong brown (7.5YR 5/6) silt loam; moderate medium and coarse subangular blocky structure; friable; few fine and medium roots throughout; 15 percent faint clay films; very strongly acid, pH 5.0; abrupt wavy boundary.

2Bt5—66 to 75 inches; 70 percent strong brown (7.5YR 4/6), 20 percent yellowish brown (10YR 5/6), and 10 percent light brownish gray (10YR 6/2) silt loam; moderate medium and coarse subangular blocky structure; firm; few fine roots throughout; 35 percent distinct clay films; 25 percent iron-manganese masses; 2 percent flat subangular very strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 5.0; clear wavy boundary. (combined thickness of the 2Bt horizons ranges from 10 to 30 inches)

2BC—75 to 84 inches; 80 percent yellowish brown (10YR 5/6), 15 percent strong brown (7.5YR 5/8), and 5 percent pale brown (10YR 6/3) silt loam; moderate medium angular blocky structure; friable; 5 percent flat subangular very strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 4.5. (4 to 20 inches thick)

### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon, lithologic discontinuity, and argillic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *Ap horizon:*

Hue—10YR

Value—4 moist

Chroma—2 or 3 moist

Texture—silt loam

Reaction (pH)—4.5 to 7.3

Organic matter content—0.5 to 3.0 percent

#### *BA and Bt horizons:*

Hue—5YR to 10YR

Value—4 or 5 moist

Chroma—4 to 6 moist

Texture—silty clay loam or silt loam

Reaction (pH)—4.5 to 5.5

Organic matter content—0.0 to 1.0 percent

#### *2Bt and 2BC horizons:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—4 to 6 moist

Texture—silt loam

Rock fragments—0 to 5 percent subangular very strongly cemented siltstone channers

Reaction (pH)—4.0 to 6.5

Organic matter content—0.0 to 0.5 percent

The Alford soils in Jefferson County are considered a taxadjunct to the series because their base saturation is less than 35 percent. This difference, however, does not affect the use and management of the soils.

## ***Beasley Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* BeB—Beasley silt loam, 2 to 6 percent slopes; BeC—Beasley silt loam, 6 to 12 percent slopes; BeD—Beasley silt loam, 12 to 25 percent slopes; FsF—Faywood-Shrouts-Beasley complex, 25 to 50 percent slopes; UkC—Urban land-Alfic Udarents-Beasley complex, 0 to 12 percent slopes

*Depth class:* Deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Landform(s):* Hill on upland and ridge on upland

*Landform position(s) (two-dimensional):* Summit, shoulder, and backslope

*Landform position(s) (three-dimensional):* Interfluvium and side slope

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

*Slope:* 0 to 50 percent

*Taxonomic classification:* Fine, mixed, active, mesic Typic Hapludalfs

### **Typical Pedon**

Beasley silt loam, 6 to 12 percent slopes; in a pasture field about 1,800 feet northwest of the intersection of Interstate 265 and State Highway 1819, about 0.75 mile northeast of the intersection of State Highway 1819 and Gelhaus Road (cross Chenoweth Run), about 600 feet southwest of the intersection of Gelhaus Road and Chenoweth Run Road to a farm entrance, about 1,800 feet southwest on the farm road to a tunnel that goes under Interstate 265, about 500 feet northeast on the farm road to the ridgetop; USGS Jeffersontown, Kentucky topographic quadrangle; lat. 38 degrees 9 minutes 11.00 seconds N. and long. 85 degrees 31 minutes 54.00 seconds W.; UTM Zone 16, 628655 meters easting, 4223825 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 6 inches; brown (10YR 4/3) silt loam; moderate fine and medium granular structure; very friable; common fine roots throughout; slightly acid, pH 6.5; abrupt smooth boundary. (4 to 8 inches thick)

Bt1—6 to 10 inches; strong brown (7.5YR 4/6) silty clay; moderate medium subangular blocky structure; firm; few fine roots throughout; 55 percent distinct clay films; 1 percent iron-manganese masses; moderately acid, pH 6.0; clear wavy boundary.

Bt2—10 to 18 inches; strong brown (7.5YR 5/6) silty clay; moderate medium and coarse subangular blocky structure; very firm; few fine roots throughout; 55 percent distinct clay films; 1 percent iron-manganese concretions and 1 percent fine distinct light yellowish brown (2.5Y 6/4) masses of oxidized iron throughout; moderately acid, pH 6.0; clear wavy boundary.

Bt3—18 to 33 inches; yellowish brown (10YR 5/6) silty clay; moderate medium and coarse subangular blocky structure; very firm; few fine roots throughout; 55 percent distinct clay films; 1 percent fine faint light yellowish brown (2.5Y 6/4) masses of oxidized iron throughout and 10 percent iron-manganese concretions; moderately acid, pH 6.0; clear wavy boundary.

Bt4—33 to 48 inches; strong brown (7.5YR 4/6) silty clay; moderate fine and medium subangular blocky structure; very firm; few fine roots throughout; 35 percent distinct clay films; 1 percent fine faint yellowish red (5YR 5/6) masses of oxidized iron throughout and 10 percent iron-manganese concretions and 10 percent medium prominent light yellowish brown (2.5Y 6/4) masses of oxidized iron throughout; 5 percent medium prominent irregular weakly cemented carbonate masses with sharp boundaries throughout; 5 percent flat subangular moderately cemented limestone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; slightly alkaline, pH 7.5; clear wavy boundary. (combined thickness of the Bt horizons ranges from 32 to 50 inches)

Cr—48 to 58 inches; moderately cemented calcareous shale bedrock.

#### **Range in Characteristics**

*Depth to restrictive feature:* 40 to 60 inches to paralithic bedrock

*Diagnostic feature(s):* Ochric epipedon, argillic horizon, and paralithic contact

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *Ap horizon:*

Hue—10YR or 2.5Y

Value—4 or 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—0 to 7 percent subangular moderately cemented limestone channers and 0 to 3 percent subangular moderately cemented limestone flagstones

Calcium carbonate equivalent—0 to 1 percent

Reaction (pH)—4.5 to 7.3

Organic matter content—0.5 to 4.0 percent

#### *Bt horizon:*

Hue—7.5YR to 10YR

Value—4 or 5 moist

Chroma—3 to 8 moist

Texture—clay or silty clay

Rock fragments—0 to 5 percent subangular moderately cemented limestone channers and 0 to 5 percent subangular moderately cemented limestone flagstones

Calcium carbonate equivalent—0 to 8 percent

Reaction (pH)—4.5 to 7.3

Organic matter content—0.1 to 0.5 percent

#### *Cr horizon:*

Bedrock—weathered, moderately cemented calcareous shale, siltstone, and limestone

### **Boonewood Series**

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* Bo—Boonewood silt loam, occasionally flooded; UabC—Urban land-Haplic Udarents-Boonewood complex, 0 to 12 percent slopes, rarely flooded

*Depth class:* Moderately deep

*Drainage class:* Well drained

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*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Flood plain on valley

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System over limestone of the Ordovician System

*Elevation:* 380 to 800 feet

*Slope:* 0 to 4 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Fluvaquentic Eutrudepts

### Typical Pedon

Boonewood silt loam, occasionally flooded; in pasture, about 2.25 miles northeast of the intersection of State Highway 148 and State Highway 1531 to a farm entrance, about 0.75 mile southeast on the farm road, and about 50 feet south of Shakes Run; USGS Fisherville, Kentucky topographic quadrangle; lat. 38 degrees 12 minutes 23.00 seconds N. and long. 85 degrees 26 minutes 14.00 seconds W.; UTM Zone 16, 636821 meters easting, 4229873 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 6 inches; brown (10YR 4/3) silt loam; moderate fine and medium granular structure; very friable; common fine roots throughout; moderately acid, pH 6.0; clear wavy boundary. (6 to 10 inches thick)

Bw1—6 to 17 inches; dark yellowish brown (10YR 4/4) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; slightly acid, pH 6.5; clear wavy boundary.

Bw2—17 to 23 inches; brown (10YR 5/3) silt loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 10 percent medium distinct black (10YR 2/1) iron-manganese concretions throughout and 10 percent medium distinct strong brown (7.5YR 4/6) masses of oxidized iron throughout; slightly acid, pH 6.5; abrupt wavy boundary. (combined thickness of the Bw horizons ranges from 8 to 25 inches)

C1—23 to 27 inches; brown (10YR 5/3) silt loam; massive; friable; few fine roots throughout; 10 percent medium distinct strong brown (7.5YR 4/6) masses of oxidized iron throughout, 10 percent medium faint grayish brown (2.5Y 5/2) iron depletions throughout, and 25 percent medium distinct black (10YR 2/1) iron-manganese concretions throughout; 5 percent nonflat subrounded indurated limestone fragments that are 1/10 inch to 3 inches in size; neutral, pH 7.0; abrupt wavy boundary.

C2—27 to 30 inches; brown (10YR 5/3) silt loam; massive; friable; 10 percent medium faint grayish brown (2.5Y 5/2) iron depletions throughout, 25 percent medium distinct strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 25 percent medium distinct black (10YR 2/1) iron-manganese concretions throughout; 5 percent nonflat subrounded indurated limestone fragments that are 1/10 inch to 3 inches in size; neutral, pH 7.0; abrupt smooth boundary. (combined thickness of the C horizons ranges from 2 to 8 inches)

R—30 inches; indurated limestone bedrock.

### Range in Characteristics

*Depth to restrictive feature:* 20 to 40 inches to lithic bedrock

*Diagnostic feature(s):* Ochric epipedon, lithic contact, aquic conditions, and cambic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 15 to 24 inches

*Surface fragments:* None



*Ap horizon:*

Hue—10YR  
Value—4 moist  
Chroma—3 or 4 moist  
Texture—silt loam  
Rock fragments—0 to 2 percent subrounded indurated limestone fine gravel, 0 to 4 percent subrounded indurated limestone medium and coarse gravel, and 0 to 2 percent subrounded indurated limestone cobbles  
Reaction (pH)—6.1 to 8.4  
Organic matter content—3.0 to 5.0 percent

*Bw horizon:*

Hue—10YR or 2.5Y  
Value—4 or 5 moist  
Chroma—3 to 6 moist  
Texture—silty clay loam or silt loam  
Rock fragments—0 to 2 percent subrounded indurated limestone fine gravel, 0 to 3 percent subrounded indurated limestone medium and coarse gravel, and 0 to 3 percent subrounded indurated limestone cobbles  
Reaction (pH)—6.1 to 8.4  
Organic matter content—0.0 to 0.5 percent

*C horizon:*

Hue—10YR or 2.5Y  
Value—4 or 5 moist  
Chroma—2 to 6 moist  
Texture—silty clay loam, silt loam, or gravelly silt loam  
Rock fragments—0 to 5 percent subrounded indurated limestone fine gravel, 0 to 6 percent subrounded indurated limestone medium and coarse gravel, and 0 to 4 percent subrounded indurated limestone cobbles  
Reaction (pH)—6.1 to 8.4  
Organic matter content—0.0 to 0.5 percent

*R horizon:*

Bedrock—unweathered, indurated limestone

## ***Caneyville Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* CaB2—Caneyville silt loam, 2 to 6 percent slopes, eroded, very rocky;

CaC2—Caneyville silt loam, 6 to 12 percent slopes, eroded, very rocky;

CaD2—Caneyville silt loam, 12 to 25 percent slopes, eroded, very rocky;

CcF2—Caneyville-Rock outcrop complex, 12 to 60 percent slopes, eroded;

UIC—Urban land-Alfic Udarents-Caneyville complex, 0 to 12 percent slopes;

UID—Urban land-Alfic Udarents-Caneyville complex, 12 to 25 percent slopes

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Landform(s):* Hill on karst upland and ridge on karst upland

*Landform position(s) (two-dimensional):* Summit, shoulder, and backslope

*Landform position(s) (three-dimensional):* Interfluvium and side slope

*Parent material:* Clayey residuum weathered from limestone of the Harrodsburg, Sellersburg, Jeffersonville, and Louisville Formations of the Mississippian, Devonian, and Silurian Systems

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*Elevation:* 500 to 900 feet

*Slope:* 0 to 60 percent

*Taxonomic classification:* Fine, mixed, active, mesic Typic Hapludalfs

### Typical Pedon

Caneyville silt loam, 6 to 12 percent slopes, eroded, very rocky; on a woodland side slope about 2.25 miles southeast of the intersection of State Highway 61 and Mt. Washington Road to the entrance of McNeely South Horse Riding Stables, about 1,300 feet north across a pond, and about 1,000 feet west; USGS Brooks, Kentucky topographic quadrangle; lat. 38 degrees 5 minutes 20.00 seconds N. and long. 85 degrees 38 minutes 10.00 seconds W.; UTM Zone 16, 619616 meters easting, 4216552 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 2 inches; very dark grayish brown (10YR 3/2) silt loam; weak fine and medium granular structure; very friable; many fine to coarse roots throughout; moderately acid, pH 6.0; abrupt wavy boundary. (1 to 5 inches thick)

Bt1—2 to 5 inches; strong brown (7.5YR 4/6) silty clay loam; moderate fine and medium subangular blocky structure; very friable; many fine to coarse roots throughout; 10 percent distinct clay films; strongly acid, pH 5.5; abrupt wavy boundary.

Bt2—5 to 8 inches; yellowish red (5YR 4/6) silty clay loam; moderate fine and medium subangular blocky structure; friable; common fine to coarse roots throughout; 35 percent distinct clay films; 1 percent iron-manganese masses; strongly acid, pH 5.5; clear wavy boundary.

Bt3—8 to 20 inches; red (2.5YR 4/6) silty clay; strong fine and medium subangular blocky structure; firm; few fine to coarse roots throughout; 55 percent distinct clay films; 1 percent iron-manganese masses; 10 percent flat angular indurated limestone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; moderately acid, pH 6.0; clear wavy boundary.

Bt4—20 to 30 inches; reddish brown (5YR 4/4) silty clay; weak fine and medium subangular blocky structure; firm; few fine to coarse roots throughout; 35 percent distinct clay films; 10 percent medium prominent light olive brown (2.5Y 5/3) iron depletions and 10 percent iron-manganese masses; 10 percent flat angular indurated limestone fragments  $\frac{1}{10}$  inch to 6 inches in size; moderately acid, pH 6.0; abrupt wavy boundary. (combined thickness of Bt horizons ranges from 20 to 34 inches)

R—30 inches; indurated limestone bedrock.

### Range in Characteristics

*Depth to restrictive feature:* 20 to 40 inches to lithic bedrock

*Diagnostic feature(s):* Ochric epipedon, lithic contact, and argillic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### A horizon:

Hue—7.5YR or 10YR

Value—3 to 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—0 to 6 percent angular indurated limestone channers

Reaction (pH)—4.5 to 7.3

Organic matter content—2.0 to 4.0 percent

#### Bt horizon:

Hue—2.5YR to 10YR



Value—4 to 6 moist  
Chroma—4 to 8 moist  
Texture—clay, silty clay loam, or silty clay  
Rock fragments—0 to 5 percent angular indurated limestone channers and 0 to 5 percent angular indurated limestone flagstones  
Reaction (pH)—4.5 to 7.3  
Organic matter content—0.0 to 0.5 percent

*R horizon:*

Bedrock—unweathered, indurated limestone

## ***Carpenter Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Knobs

*Map unit(s):* CeF—Carpenter silt loam, 20 to 50 percent slopes

*Depth class:* Deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Knob on upland

*Landform position(s) (two-dimensional):* Backslope

*Landform position(s) (three-dimensional):* Side slope

*Parent material:* Fine-loamy colluvium derived from shale and siltstone over loamy residuum weathered from shale and siltstone of the Muldraugh and Holtsclaw Members of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

*Slope:* 20 to 50 percent

*Taxonomic classification:* Fine-loamy, mixed, semiactive, mesic Ultic Hapludalfs

### **Typical Pedon**

Carpenter silt loam, 20 to 50 percent slopes; on a woodland side slope about 1,800 feet south of the intersection of Interstate 265 and State Highway 1020, about 0.75 mile northeast of the intersection of State Highway 1020 and Fairdale Road, about 1.75 miles southwest of the intersection of Fairdale Road and South Park Road, about 1.25 miles northeast of the intersection of South Park Road and Granger Lane to a ridgetop, and about 100 feet over the ridgetop (on an unimproved road) to a northeast-facing upper side slope; USGS Brooks, Kentucky topographic quadrangle; lat. 38 degrees 6 minutes 32.00 seconds N. and long. 85 degrees 42 minutes 39.00 seconds W.; UTM Zone 16, 613025 meters easting, 4218692 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 6 inches; dark grayish brown (10YR 4/2) silt loam; moderate fine and medium granular structure; friable; many fine to coarse roots throughout; 5 percent flat subangular very strongly cemented shale fragments that are  $\frac{1}{10}$  inch to 6 inches in size and 5 percent flat subangular very strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 4.7; clear wavy boundary. (3 to 6 inches thick)

Bt1—6 to 9 inches; strong brown (7.5YR 5/6) silt loam; moderate fine and medium subangular blocky structure; friable; common fine to coarse roots throughout; 35 percent distinct clay films; 5 percent flat subangular very strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 4.7; clear wavy boundary.

Bt2—9 to 15 inches; strong brown (7.5YR 4/6) silt loam; moderate medium subangular blocky structure; firm; common fine to coarse roots throughout; 55 percent distinct

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- clay films; 5 percent flat subangular very strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; strongly acid, pH 5.3; clear wavy boundary.
- Bt3—15 to 22 inches; yellowish red (5YR 4/6) silty clay loam; moderate medium subangular blocky structure; firm; common fine to coarse roots throughout; 55 percent distinct clay films; 10 percent flat subangular very strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; strongly acid, pH 5.3; clear wavy boundary.
- Bt4—22 to 38 inches; yellowish red (5YR 4/6) channery silty clay loam; 25 percent medium distinct yellowish brown (10YR 5/6) mottles; moderate fine and medium subangular blocky structure; firm; common fine to coarse roots throughout; 55 percent distinct clay films; 25 percent flat subangular very strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; strongly acid, pH 5.3; clear wavy boundary. (combined thickness of the Bt horizons ranges from 25 to 55 inches)
- 2Bt5—38 to 45 inches; strong brown (7.5YR 4/6) very channery silty clay loam; 25 percent medium prominent light yellowish brown (2.5Y 6/4) mottles; moderate fine subangular blocky structure; firm; few fine and medium roots throughout; 35 percent distinct clay films; 35 percent flat subangular very strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; strongly acid, pH 5.3; clear wavy boundary. (0 to 20 inches thick)
- 2Cr—45 to 68 inches; very strongly cemented shale and siltstone bedrock.

### Range in Characteristics

*Depth to restrictive feature:* 40 to 60 inches to paralithic bedrock

*Diagnostic feature(s):* Ochric epipedon, lithologic discontinuity, paralithic contact, and argillic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *A horizon:*

Hue—10YR or 2.5Y

Value—4 or 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—0 to 9 percent subangular very strongly cemented siltstone channers and 0 to 5 percent subangular very strongly cemented siltstone flagstones

Reaction (pH)—4.5 to 6.5

Organic matter content—1.0 to 4.0 percent

#### *Bt horizon:*

Hue—5YR to 5Y

Value—4 to 6 moist

Chroma—3 to 8 moist

Texture—channery silty clay loam, silt loam, or silty clay loam

Rock fragments—7 to 15 percent subangular very strongly cemented siltstone channers and 3 to 5 percent subangular very strongly cemented siltstone flagstones

Reaction (pH)—4.5 to 6.5

Organic matter content—0.0 to 0.5 percent

#### *2Bt horizon:*

Hue—5YR to 5Y

Value—4 to 6 moist

Chroma—3 to 8 moist

Texture—very channery silty clay loam, channery silty clay, or channery silty clay loam

Rock fragments—0 to 30 percent subangular very strongly cemented siltstone channers and 0 to 10 percent subangular very strongly cemented siltstone flagstones

Reaction (pH)—4.5 to 6.0

Organic matter content—0.0 to 0.5 percent

*Cr horizon:*

Bedrock—weathered, very strongly cemented shale and siltstone

## ***Chagrin Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* CnF—Chagrin-Nelse-Wheeling complex, 2 to 75 percent slopes, frequently flooded

*Depth class:* Very deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Flood plain in river valley

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 500 feet

*Slope:* 2 to 25 percent

*Taxonomic classification:* Fine-loamy, mixed, active, mesic Dystric Fluventic Eutrudepts

### **Typical Pedon**

Chagrin loam in an area of Chagrin-Nelse-Wheeling complex, 2 to 75 percent slopes, frequently flooded; on a woodland river bank about 1 mile north of the intersection of Interstate 265 and U.S. Highway 42, about 0.3 mile northwest of the intersection of U.S. Highway 42 and Timber Ridge Road, about 600 feet southwest of the intersection of Timber Ridge Road and River Road, about 1 mile northwest of the intersection of River Road and Mayfair Avenue toward Transylvania Beach, about 650 feet northwest of the intersection of Mayfair Avenue and the steep woodland bluff to the Ohio River, and about 15 feet southeast of the Ohio River (about 50 feet northwest from the typical profile the Nelse series); USGS Jeffersonville, Indiana topographic quadrangle; lat. 38 degrees 20 minutes 46.00 seconds N. and long. 85 degrees 38 minutes 16.00 seconds W.; UTM Zone 16, 619023 meters easting, 4245100 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 10 inches; brown (10YR 4/3) loam; moderate fine and medium granular structure; very friable; common fine to coarse roots throughout; neutral, pH 7.2; abrupt wavy boundary. (6 to 12 inches thick)

Bw1—10 to 30 inches; dark yellowish brown (10YR 4/4) silt loam; weak medium and coarse subangular blocky structure; very friable; few fine to coarse roots throughout; neutral, pH 7.1; clear smooth boundary.

Bw2—30 to 39 inches; brown (10YR 4/3) silt loam; weak fine and medium subangular blocky structure; very friable; few fine to coarse roots throughout; neutral, pH 7.2; clear smooth boundary. (combined thickness of the Bw horizons ranges from 15 to 40 inches)

C1—39 to 70 inches; yellowish brown (10YR 5/4) silt loam; massive; very friable; few fine to coarse roots throughout; neutral, pH 7.0; clear smooth boundary.

C2—70 to 90 inches; brown (10YR 5/3) loam; massive; very friable; few fine to coarse

## Soil Survey of Jefferson County, Kentucky

roots throughout; neutral, pH 7.0. (combined thickness of the C horizons ranges from 30 to 60 inches)

### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon and cambic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

#### *A horizon:*

Hue—7.5YR or 10YR

Value—4 moist

Chroma—2 to 4 moist

Texture—loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.3

Organic matter content—2.0 to 4.0 percent

#### *Bw horizon:*

Hue—7.5YR or 10YR

Value—4 to 6 moist

Chroma—3 to 6 moist

Texture—silt loam, loam, or sandy loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.3

Organic matter content—0.5 to 1.0 percent

#### *C horizon:*

Hue—7.5YR or 10YR

Value—4 to 6 moist

Chroma—3 to 6 moist

Texture—silt loam, sandy loam, stratified gravelly fine sand to silt loam, or loam

Rock fragments—0 to 10 percent subrounded indurated mixed fine gravel and 0 to 15 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.3

Organic matter content—0.3 to 1.0 percent

## **Combs Series**

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* Co—Combs fine sandy loam, occasionally flooded; UacB—Urban land-Haplic Udarents-Combs complex, 0 to 6 percent slopes, rarely flooded

*Depth class:* Very deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* High

*Landform(s):* Flood plain in river valley

*Parent material:* Mixed, coarse-loamy alluvium of the Quaternary System

*Elevation:* 380 to 500 feet

*Slope:* 0 to 4 percent

*Taxonomic classification:* Coarse-loamy, mixed, active, mesic Fluventic Hapludolls

### Typical Pedon

Combs fine sandy loam, occasionally flooded; in a hayfield about 900 feet south of the

intersection of State Highway 1934 and State Highway 1230 to the entrance of the Farnsley-Moremén Riverside Landing Park, about 0.25 mile southwest of the intersection of State Highway 1230 and Moorman Road to the park parking lot, about 0.5 mile north of the northwest corner of the parking lot through two hayfields, about 600 feet west (across a steep bluff) toward the Ohio River, and about 50 feet east of the Ohio River; USGS Kosmosdale, Indiana topographic quadrangle; lat. 38 degrees 6 minutes 9.00 seconds N. and long. 85 degrees 53 minutes 55.00 seconds W.; UTM Zone 16, 596559 meters easting, 4217773 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- Ap—0 to 14 inches; very dark grayish brown (10YR 3/2) fine sandy loam, brown (10YR 5/3) dry; moderate fine and medium granular structure; very friable; common fine roots throughout; 35 percent mica flakes; neutral, pH 7.0; clear wavy boundary. (10 to 15 inches thick)
- Bw1—14 to 22 inches; dark yellowish brown (10YR 4/4) fine sandy loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 35 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw2—22 to 34 inches; dark yellowish brown (10YR 4/4) sandy loam; weak fine subangular blocky structure; very friable; few fine roots throughout; 35 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw3—34 to 58 inches; dark yellowish brown (10YR 4/4) fine sandy loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 35 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw4—58 to 67 inches; dark yellowish brown (10YR 4/4) fine sandy loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 25 percent medium faint grayish brown (2.5Y 5/2) iron depletions throughout and 25 percent medium faint brown (7.5YR 4/4) masses of oxidized iron throughout; 35 percent mica flakes; neutral, pH 7.0; abrupt wavy boundary.
- Bw5—67 to 71 inches; brown (7.5YR 4/4) fine sandy loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 25 percent medium prominent grayish brown (2.5Y 5/2) clay depletions throughout; 35 percent mica flakes; neutral, pH 7.0; abrupt smooth boundary.
- Bw6—71 to 77 inches; dark yellowish brown (10YR 4/6) silt loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 25 percent medium prominent grayish brown (2.5Y 5/2) iron depletions throughout, 25 percent medium faint strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 25 percent iron-manganese masses; 35 percent mica flakes; neutral, pH 7.0; abrupt wavy boundary. (combined thickness of the Bw horizons ranges from 30 to 70 inches)
- C1—77 to 83 inches; dark yellowish brown (10YR 4/4) silt loam; massive; friable; few fine roots throughout; 25 percent medium faint gray (2.5Y 6/1) iron depletions throughout and 25 percent medium prominent brown (7.5YR 4/4) masses of oxidized iron throughout; 35 percent mica flakes; neutral, pH 7.0; abrupt wavy boundary.
- C2—83 to 102 inches; brown (7.5YR 4/4) silt loam; massive; friable; few fine roots throughout; 25 percent medium prominent grayish brown (2.5Y 5/2) iron depletions throughout and 25 percent medium prominent gray (10YR 6/1) iron depletions throughout; 35 percent mica flakes; neutral, pH 7.0. (combined thickness of the C horizons ranges from 20 to 40 inches)

#### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Aquic conditions, mollic epipedon, and cambic horizon

*Surface fragments:* None

## Soil Survey of Jefferson County, Kentucky

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 42 to 70 inches

*Surface fragments:* None

*Ap horizon:*

Hue—7.5YR or 10YR

Value—3 moist

Chroma—2 or 3 moist

Texture—loam

Rock fragments—0 to 7 percent subrounded indurated mixed fine gravel and 0 to 7 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.3

Organic matter content—1.0 to 5.0 percent

*Bw horizon:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—4 to 6 moist

Texture—fine sandy loam, sandy loam, or silt loam

Rock fragments—0 to 7 percent subrounded indurated mixed fine gravel and 0 to 7 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.3

Organic matter content—0.5 to 2.0 percent

*C horizon:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—4 to 6 moist

Texture—sandy loam, silt loam, or loam

Rock fragments—0 to 7 percent subrounded indurated mixed fine gravel and 0 to 7 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.3

Organic matter content—0.5 to 2.0 percent

The Combs soils in Jefferson County are considered a taxadjunct to the series because their CEC/clay activity class is higher than what is allowed. Lab data indicates it to be superactive. This difference, however, does not affect the use and management of the soils.

### ***Crider Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* CrA—Crider silt loam, 0 to 2 percent slopes; CrB—Crider silt loam, 2 to 6 percent slopes; CrC—Crider silt loam, 6 to 12 percent slopes; CrD—Crider silt loam, 12 to 20 percent slopes; UmC—Urban land-Alfic Udarents-Crider complex, 0 to 12 percent slopes; UmD—Urban land-Alfic Udarents-Crider complex, 12 to 25 percent slopes

*Depth class:* Very deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Hill on karst upland and ridge on karst upland

*Landform position(s) (two-dimensional):* Summit, shoulder, and backslope

*Landform position(s) (three-dimensional):* Interfluvium and side slope

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone



## Soil Survey of Jefferson County, Kentucky

and dolomite of the Sellersburg, Jeffersonville, and Louisville Formations of the Devonian and Silurian Systems

*Elevation:* 500 to 800 feet

*Slope:* 0 to 25 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Typic Paleudalfs

### Typical Pedon

Crider silt loam, 2 to 6 percent slopes; in a hayfield about 0.75 mile west of the intersection of Interstate 265 and State Highway 155, about 2,000 feet north of the intersection of State Highway 155 and Tucker Station Road to the entrance of the Black Acre Nature Preserve, about 1,200 feet northwest on a gravel road to a hayfield, and about 50 feet northeast into the field; USGS Fisherville, Kentucky topographic quadrangle; lat. 38 degrees 11 minutes 48.00 seconds N. and long. 85 degrees 31 minutes 59.00 seconds W.; UTM Zone 16, 628449 meters easting, 4228649 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 7 inches; brown (10YR 4/3) silt loam; weak fine and medium granular structure; friable; many fine roots throughout; neutral, pH 7.0; abrupt smooth boundary. (5 to 11 inches thick)

Bt1—7 to 18 inches; strong brown (7.5YR 4/6) silt loam; moderate fine and medium subangular blocky structure; friable; common fine roots throughout; 55 percent distinct clay films; neutral, pH 7.0; clear wavy boundary.

Bt2—18 to 24 inches; strong brown (7.5YR 4/6) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 55 percent distinct clay films; 1 percent iron-manganese concretions throughout and 1 percent iron-manganese masses throughout; slightly acid, pH 6.5; clear wavy boundary. (combined thickness of the Bt horizons ranges from 25 to 60 inches)

2Bt3—24 to 41 inches; dark red (2.5YR 3/6) silty clay loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 55 percent distinct clay films; 5 percent iron-manganese concretions throughout and 5 percent iron-manganese masses throughout; slightly acid, pH 6.5; clear wavy boundary.

2Bt4—41 to 80 inches; red (2.5YR 4/6) silty clay loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 55 percent distinct clay films; 12 percent iron-manganese concretions throughout and 25 percent iron-manganese masses throughout; slightly acid, pH 6.5; clear wavy boundary.

2Bt5—80 to 90 inches; red (2.5YR 4/6) silty clay loam; weak fine and medium subangular blocky structure; friable; 55 percent distinct clay films; 12 percent iron-manganese concretions throughout and 12 percent iron-manganese masses throughout; 2 percent nonflat angular indurated chert fragments that are  $\frac{1}{10}$  inch to 3 inches in size; slightly acid, pH 6.5; clear wavy boundary.

2Bt6—90 to 100 inches; red (2.5YR 4/6) silty clay loam; 10 percent medium prominent light olive brown (2.5Y 5/3) mottles; weak fine and medium subangular blocky structure; friable; 30 percent distinct clay films; 12 percent iron-manganese concretions throughout and 12 percent iron-manganese masses throughout; 2 percent nonflat angular indurated chert fragments that are  $\frac{1}{10}$  inch to 3 inches in size; slightly acid, pH 6.5. (combined thickness of the 2Bt horizons ranges from 20 to 60 inches)

### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon, lithologic discontinuity, and argillic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

*Ap horizon:*

Hue—7.5YR or 10YR  
Value—4 or 5 moist  
Chroma—2 to 4 moist  
Texture—silt loam  
Rock fragments—none  
Reaction (pH)—5.1 to 7.3  
Organic matter content—2.0 to 4.0 percent

*Bt horizon:*

Hue—5YR to 10YR  
Value—4 or 5 moist  
Chroma—4 to 6 moist  
Texture—silt loam or silty clay loam  
Rock fragments—none  
Reaction (pH)—5.1 to 7.3  
Organic matter content—0.0 to 0.5 percent

*2Bt horizon:*

Hue—10R to 5YR  
Value—3 to 5 moist  
Chroma—4 to 8 moist  
Texture—silty clay, clay, or silty clay loam  
Rock fragments—0 to 5 percent angular indurated chert fine gravel, 0 to 6 percent angular indurated chert medium and coarse gravel, and 0 to 3 percent angular indurated chert cobbles  
Reaction (pH)—4.5 to 6.5  
Organic matter content—0.0 to 0.5 percent

***Elk Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* EkA—Elk silt loam, 0 to 2 percent slopes; EkB—Elk silt loam, 2 to 6 percent slopes; EkC—Elk silt loam, 6 to 12 percent slopes; EkD—Elk silt loam, 12 to 25 percent slopes; EoA—Elk silt loam, 0 to 2 percent slopes, occasionally flooded; EoB—Elk silt loam, 2 to 6 percent slopes, occasionally flooded; EoC—Elk silt loam, 6 to 12 percent slopes, occasionally flooded; UnC—Urban land-Alfic Udarents-Elk complex, 0 to 12 percent slopes, rarely flooded

*Depth class:* Very deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Stream terrace in river valley

*Landform position(s) (three-dimensional):* Riser and tread

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 800 feet

*Slope:* 0 to 25 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Ultic Hapludalfs

**Typical Pedon**

Elk silt loam, 0 to 2 percent slopes, occasionally flooded; in a walnut plantation about 0.5 mile northwest of the intersection of State highway 148 to a farm entrance, about 1,750 feet north on the farm road toward Floyds Fork, about 40 feet east of the farm road, and about 750 feet south of Floyds Fork; USGS Fisherville, Kentucky topographic quadrangle; lat. 38 degrees 11 minutes 42.00 seconds N. and long. 85



## Soil Survey of Jefferson County, Kentucky

degrees 27 minutes 42.00 seconds W.; UTM Zone 16, 634709 meters easting, 4228564 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- Ap—0 to 8 inches; dark grayish brown (10YR 4/2) silt loam; weak fine and medium granular structure; very friable; few fine roots throughout; neutral, pH 7.0; clear wavy boundary. (7 to 12 inches thick)
- AB—8 to 12 inches; brown (10YR 4/3) silt loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 1 percent iron-manganese concretions; neutral, pH 7.0; clear wavy boundary. (0 to 10 inches thick)
- Bt1—12 to 21 inches; dark yellowish brown (10YR 4/4) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 30 percent distinct clay films; 1 percent iron-manganese concretions; neutral, pH 7.0; clear wavy boundary.
- Bt2—21 to 36 inches; dark yellowish brown (10YR 4/4) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 55 percent distinct clay films; 10 percent iron-manganese concretions; neutral, pH 7.0; clear wavy boundary.
- Bt3—36 to 52 inches; yellowish brown (10YR 5/4) silty clay loam; moderate medium and coarse subangular blocky structure; firm; few fine roots throughout; 55 percent distinct clay films; 1 percent fine distinct reddish brown (5YR 4/4) masses of oxidized iron throughout, 25 percent medium faint strong brown (7.5YR 4/6) masses of oxidized iron throughout, 25 percent medium faint light yellowish brown (2.5Y 6/4) iron depletions throughout, 25 percent iron-manganese concretions, and 25 percent iron-manganese masses; neutral, pH 7.0; clear wavy boundary. (combined thickness of the Bt horizons ranges from 15 to 40 inches)
- 2Bt4—52 to 65 inches; dark yellowish brown (10YR 4/4) silty clay loam; moderate medium and coarse subangular blocky structure; firm; 55 percent distinct clay films; 25 percent fine distinct light brownish gray (2.5Y 6/2) iron depletions throughout, 25 percent fine faint strong brown (7.5YR 5/6) masses of oxidized iron throughout, and 25 percent iron-manganese masses; neutral, pH 7.0; clear wavy boundary.
- 2Bt5—65 to 69 inches; yellowish brown (10YR 5/4) silty clay loam; weak fine subangular blocky structure; firm; 30 percent distinct clay films; 10 percent iron-manganese concretions, 10 percent iron-manganese masses, 25 percent medium distinct light brownish gray (2.5Y 6/2) iron depletions throughout, 25 percent medium faint brown (7.5YR 4/4) masses of oxidized iron throughout, and 25 percent fine faint strong brown (7.5YR 5/6) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary. (combined thickness of the 2Bt horizons ranges from 10 to 20 inches)
- 2C1—69 to 81 inches; dark yellowish brown (10YR 4/4) very gravelly silty clay loam; massive; friable; 25 percent medium faint light yellowish brown (10YR 6/4) masses of oxidized iron throughout; 35 percent nonflat subrounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; neutral, pH 7.0; abrupt wavy boundary.
- 2C2—81 to 87 inches; brown (7.5YR 4/4), yellowish brown (10YR 5/6), and gray (10YR 6/1) silty clay loam; massive; firm; 10 percent nonflat subrounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; neutral, pH 7.0. (combined thickness of the C horizons ranges from 10 to 30 inches)

### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon, aquic conditions, lithologic discontinuity, and argillic horizon

*Surface fragments:* None

## Soil Survey of Jefferson County, Kentucky

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 36 to 60 inches

*Surface fragments:* None

*Ap and AB horizons:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—4.5 to 6.5

Organic matter content—0.5 to 3.0 percent

*Bt horizon:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—4 to 6 moist

Texture—silt loam or silty clay loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—4.5 to 6.5

Organic matter content—0.5 to 1.0 percent

*2Bt horizon:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—4 to 6 moist

Texture—silty clay loam or silt loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—4.5 to 6.5

Organic matter content—0.5 to 1.0 percent

*C horizon:*

Hue—5YR to 10YR

Value—4 or 5 moist

Chroma—4 to 8 moist

Texture—gravelly silty clay loam, silty clay loam, or silt loam

Rock fragments—0 to 15 percent subrounded indurated mixed fine gravel and 0 to 20 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—4.5 to 6.5

Organic matter content—0.0 to 0.5 percent

### ***Faywood Series (Severely Eroded)***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* FeC3—Faywood silty clay loam, 6 to 12 percent slopes, severely eroded;

FeD3—Faywood silty clay loam, 12 to 25 percent slopes, severely eroded

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Landform(s):* Hill on upland and ridge on upland

*Landform position(s) (two-dimensional):* Shoulder and backslope

## Soil Survey of Jefferson County, Kentucky

*Landform position(s) (three-dimensional):* Side slope

*Parent material:* Clayey residuum weathered from dolomite, limestone, and shale of the Laurel, Osgood, and Brassfield Formations and the Saluda and Bardstown Members of the Drakes Formation and the Grant Lake Formation, of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

*Slope:* 6 to 25 percent

*Taxonomic classification:* Fine, mixed, active, mesic Typic Hapludalfs

### Typical Pedon

Faywood silty clay loam, 12 to 25 percent slopes, severely eroded; on a woodland side slope (that is now part of the Jefferson County Metro Parks Property) about 1.75 miles east of the intersection of the Interstate 265 and State Highway 155, about 1.25 miles southeast of the intersection of State Highway 155 and State Highway 148, about 0.75 mile southwest to the intersection of State Highway 155 and State Highway 1531, about 0.75 mile southwest to the intersection of State Highway 1531 and Thurman Road, about 0.5 mile northwest of the intersection of Thurman Road and Deer Run Road, about 0.3 mile northwest of the intersection of Deer Run Road and Deer Run Place (through the park entrance) over a steep bluff into the Floyds Fork bottoms, about 900 feet northeast across an intermittent drain, and about 900 feet northeast to a northeast-facing side slope; USGS Fisherville, Kentucky topographic quadrangle; lat. 38 degrees 10 minutes 28.00 seconds N. and long. 85 degrees 29 minutes 5.00 seconds W.; UTM Zone 16, 632719 meters easting, 4226261 meters northing; NAD83.

- A—0 to 2 inches; dark brown (10YR 3/3) silty clay loam; moderate fine granular structure; firm; many fine and many medium roots throughout; strongly acid, pH 5.5; abrupt wavy boundary. (1 to 3 inches thick)
- Bt1—2 to 9 inches; yellowish brown (10YR 5/6) silty clay; 10 percent medium distinct irregular strong brown (7.5YR 5/6) mottles; moderate coarse subangular blocky structure parting to moderate medium subangular blocky; very firm; common fine and common medium roots throughout; 60 percent discontinuous distinct clay films on vertical faces of peds; strongly acid, pH 5.5; clear wavy boundary.
- Bt2—9 to 19 inches; yellowish brown (10YR 5/6) silty clay; 10 percent medium distinct irregular strong brown (7.5YR 5/6) and 10 percent medium prominent irregular light brownish gray (2.5Y 6/2) mottles; moderate coarse subangular blocky structure parting to moderate medium subangular blocky; very firm; common fine and common medium roots throughout; 60 percent discontinuous distinct clay films on vertical faces of peds; moderately acid, pH 6.0; clear wavy boundary.
- Bt3—19 to 26 inches; yellowish brown (10YR 5/6) silty clay; 10 percent medium prominent irregular light brownish gray (2.5Y 6/2) and 10 percent medium distinct irregular strong brown (7.5YR 5/6) mottles; weak medium subangular blocky; very firm; few fine roots throughout; 20 percent discontinuous distinct clay films on vertical faces of peds; 10 percent flat angular indurated limestone fragments that are 1/10 inch to 6 inches in size; moderately acid, pH 6.0; clear wavy boundary. (combined thickness of the Bt horizons ranges from 20 to 30 inches)
- BC—26 to 33 inches; yellowish brown (10YR 5/6) silty clay loam; 10 percent medium prominent irregular light brownish gray (2.5Y 6/2) and 10 percent medium distinct irregular strong brown (7.5YR 5/6) mottles; weak medium subangular blocky structure parting to weak fine subangular blocky; very firm; few fine roots throughout; 15 percent flat angular indurated limestone fragments that are 1/10 inch to 6 inches in size; moderately acid, pH 6.0; clear wavy boundary. (0 to 10 inches thick)
- R—33 to 37 inches; indurated limestone and shale bedrock.

### Range in Characteristics

*Depth to restrictive feature:* 20 to 40 inches to lithic bedrock

*Diagnostic feature(s):* Ochric epipedon, lithic contact, and argillic horizon

*Surface fragments:* 0 to 15 percent limestone channers or flagstones

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *A horizon:*

Hue—10YR

Value—3 moist

Chroma—2 to 4 moist

Texture—silty clay loam

Rock fragments—0 to 7 percent angular indurated limestone channers, 0 to 5 percent angular indurated limestone flagstones, and 0 to 2 percent angular indurated limestone stones

Reaction (pH)—5.1 to 7.8

Organic matter content—1.0 to 2.0 percent

#### *Bt and BC horizons:*

Hue—7.5YR to 2.5Y

Value—4 to 6 moist

Chroma—4 to 8 moist

Texture—silty clay loam, clay, or silty clay

Rock fragments—0 to 5 percent angular indurated limestone channers, 0 to 7 percent angular indurated limestone flagstones, and 0 to 2 percent angular indurated limestone stones

Reaction (pH)—5.1 to 7.8

Organic matter content—0.0 to 0.5 percent

#### *R horizon:*

Bedrock—unweathered, indurated limestone and shale

## **Faywood Series**

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* FaC—Faywood silt loam, 6 to 12 percent slopes; FaD—Faywood silt loam, 12 to 25 percent slopes; FsF—Faywood-Shrouds-Beasley complex, 25 to 50 percent slopes

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Landform(s):* Hill on upland and ridge on upland

*Landform position(s) (two-dimensional):* Shoulder and backslope

*Landform position(s) (three-dimensional):* Side slope

*Parent material:* Clayey residuum weathered from dolomite, limestone, and shale of the Laurel, Osgood, and Brassfield Formations and the Saluda and Bardstown Members of the Drakes Formation and the Grant Lake Formation, of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

*Slope:* 6 to 50 percent

*Taxonomic classification:* Fine, mixed, active, mesic Typic Hapludalfs

### Typical Pedon

Faywood silt loam, 12 to 25 percent slopes; on a woodland side slope about 2.6 miles

northeast of the intersection of U.S. Highway 60 and Long Run Road to the entrance of Long Run Park, about 200 feet southwest of the intersection of Long Run Road and Long Run Park Road, and about 275 feet southwest of Long Run Park Road through a grass field across an intermittent drain to a northeast-facing side slope; USGS Crestwood, Kentucky topographic quadrangle; lat. 38 degrees 15 minutes 40.00 seconds N. and long. 85 degrees 25 minutes 0.00 seconds W.; UTM Zone 16, 638512 meters easting, 4235958 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- A—0 to 7 inches; brown (10YR 4/3) silt loam; moderate fine and medium granular structure; very friable; many fine to coarse roots throughout; strongly acid, pH 5.5; abrupt wavy boundary. (4 to 8 inches thick)
- Bt1—7 to 15 inches; strong brown (7.5YR 4/6) silty clay loam; moderate medium and coarse subangular blocky structure; firm; common fine and medium roots throughout; 55 percent distinct clay films; 1 percent iron-manganese concretions; strongly acid, pH 5.5; clear wavy boundary.
- Bt2—15 to 26 inches; dark yellowish brown (10YR 4/6) silty clay; strong medium angular blocky structure; very firm; few fine roots throughout; 55 percent distinct clay films; 1 percent iron-manganese concretions and 25 percent medium faint strong brown (7.5YR 4/6) masses of oxidized iron throughout; moderately acid, pH 6.0; clear wavy boundary.
- Bt3—26 to 29 inches; dark yellowish brown (10YR 4/6) silty clay; moderate medium subangular blocky structure; very firm; few fine roots throughout; 55 percent distinct clay films; 10 percent iron-manganese concretions, 25 percent medium faint strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 25 percent medium distinct light olive brown (2.5Y 5/3) iron depletions throughout; moderately acid, pH 6.0; abrupt wavy boundary. (combined thickness of the Bt horizons ranges from 15 to 30 inches)
- R—29 to 33 inches; indurated limestone and shale bedrock.

#### **Range in Characteristics**

*Depth to restrictive feature:* 20 to 40 inches to lithic bedrock

*Diagnostic feature(s):* Ochric epipedon, lithic contact, and argillic horizon

*Surface fragments:* 0 to 15 percent limestone channers or flagstones

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *Ap horizon:*

Hue—10YR

Value—4 or 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—0 to 7 percent angular indurated limestone channers, 0 to 5 percent angular indurated limestone flagstones, and 0 to 2 percent angular indurated limestone stones

Reaction (pH)—5.1 to 7.8

Organic matter content—1.0 to 2.0 percent

#### *Bt horizon:*

Hue—7.5YR to 2.5Y

Value—4 to 6 moist

Chroma—4 to 8 moist

Texture—silty clay, clay, or silty clay loam

Rock fragments—0 to 5 percent angular indurated limestone channers, 0 to 7 percent angular indurated limestone flagstones, and 0 to 2 percent angular indurated limestone stones

Reaction (pH)—5.1 to 7.8  
Organic matter content—0.0 to 0.5 percent

*R horizon:*

Bedrock—unweathered, indurated limestone and shale

## ***Gilpin Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Knobs

*Map unit(s):* GpD—Gilpin silt loam, 12 to 25 percent slopes; GwF—Gilpin-Weikert complex, 25 to 60 percent slopes

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Knob on upland

*Landform position(s) (two-dimensional):* Backslope

*Landform position(s) (three-dimensional):* Side slope

*Parent material:* Fine-loamy residuum weathered from shale and siltstone of the Muldraugh, Holtsclaw, Nancy, Kenwood, and New Providence Members of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

*Slope:* 12 to 60 percent

*Taxonomic classification:* Fine-loamy, mixed, active, mesic Typic Hapludults

### **Typical Pedon**

Gilpin silt loam, 12 to 25 percent slopes; on a woodland ridgetop about 1,800 feet south of the intersection of Interstate 265 and State Highway 1020, about 1.75 miles southwest of the intersection of State Highway 1020 and Fairdale Road, about 2.5 miles southwest of the intersection of Fairdale Road and Mitchell Hill Road, about 0.5 mile southeast of the intersection of Mitchell Hill Road and Holsclaw Hill Road to the entrance of the Jefferson County Memorial Forest, about 1,800 feet to a parking lot and picnic shelter, and about 2,000 feet northeast from the northeast end of the parking lot (along a hiking-trail) to a woodland ridgetop (about 200 feet southeast from the Weikert representative profile); USGS Valley Station, Kentucky topographic quadrangle; lat. 38 degrees 5 minutes 19.00 seconds N. and long. 85 degrees 45 minutes 3.00 seconds W.; UTM Zone 16, 609554 meters easting, 4216374 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 6 inches; dark brown (10YR 3/3) silt loam, pale brown (10YR 6/3) dry; weak medium granular structure; very friable; many fine and medium roots throughout; 5 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 5.0; clear smooth boundary. (6 to 10 inches thick)

E—6 to 12 inches; light yellowish brown (10YR 6/4) silt loam; weak fine and medium subangular blocky structure; friable; many fine to coarse roots throughout; 5 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 5.0; clear smooth boundary. (0 to 6 inches thick)

Bt—12 to 23 inches; yellowish brown (10YR 5/6) silt loam; moderate medium and coarse subangular blocky structure; friable; many fine to coarse roots throughout; 30 percent distinct clay films; 5 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 5.0; clear wavy boundary. (10 to 26 inches thick)

BC—23 to 31 inches; light olive brown (2.5Y 5/3) very channery silt loam; weak



medium subangular blocky structure; firm; few fine roots throughout; 35 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 5.0; abrupt wavy boundary. (0 to 10 inches thick)  
R—31 to 41 inches; very strongly cemented siltstone bedrock.

#### **Range in Characteristics**

*Depth to restrictive feature:* 20 to 40 inches to paralithic bedrock

*Diagnostic feature(s):* Ochric epipedon, lithic contact, and argillic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *A and E horizons:*

Hue—7.5YR to 2.5Y

Value—2 to 6 moist

Chroma—1 to 5 moist

Texture—silt loam

Rock fragments—2 to 5 percent subangular strongly cemented siltstone channers and 0 to 5 percent subangular strongly cemented siltstone flagstones

Reaction (pH)—3.6 to 5.5

Organic matter content—2.0 to 4.0 percent

#### *Bt horizon:*

Hue—7.5YR to 2.5Y

Value—4 to 6 moist

Chroma—4 to 8 moist

Texture—silt loam, loam, channery silt loam, or channery silty clay loam

Rock fragments—2 to 15 percent subangular strongly cemented siltstone channers and 0 to 5 percent subangular strongly cemented siltstone flagstones

Reaction (pH)—3.6 to 5.5

Organic matter content—0.0 to 0.5 percent

#### *BC horizon:*

Hue—7.5YR to 2.5Y

Value—4 to 6 moist

Chroma—4 to 8 moist

Texture—channery loam, very channery loam, or very channery silt loam

Rock fragments—8 to 30 percent subangular strongly cemented siltstone channers and 5 to 25 percent subangular strongly cemented siltstone flagstones

Reaction (pH)—3.6 to 5.5

Organic matter content—0.0 to 0.5 percent

#### *R horizon:*

Bedrock—unweathered, very strongly cemented siltstone

### ***Haplic Udarents***

Refer to the description of the detailed soil map unit.

### ***Huntington Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* Ha—Huntington silt loam, occasionally flooded; Hf—Huntington silt loam, frequently flooded



## Soil Survey of Jefferson County, Kentucky

*Depth class:* Very deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Flood plain in river valley

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 500 feet

*Slope:* 0 to 4 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Fluventic Hapludolls

### Typical Pedon

Huntington silt loam, frequently flooded; in a grass field about 900 feet south of the intersection of State Highway 1934 and State Highway 1230 to the entrance of the Farnsley-Moremeyn Riverside Landing Park, about 0.25 mile southwest of the intersection of State Highway 1230 and Moorman Road to the park parking lot, about 300 feet southwest of the southwest corner of the parking lot, and about 600 feet east of the Ohio River; USGS Kosmosdale, Indiana topographic quadrangle; lat. 38 degrees 5 minutes 43.00 seconds N. and long. 85 degrees 53 minutes 48.00 seconds W.; UTM Zone 16, 596747 meters easting, 4216960 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- Ap1—0 to 9 inches; very dark grayish brown (10YR 3/2) silt loam, brown (10YR 5/3) dry; moderate fine and medium granular structure; friable; common fine roots throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Ap2—9 to 22 inches; dark brown (10YR 3/3) silt loam, grayish brown (10YR 5/2) dry; moderate medium subangular blocky structure parting to moderate fine and medium granular; friable; few fine roots throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary. (combined thickness of the Ap horizons ranges from 10 to 22 inches)
- Bw1—22 to 32 inches; dark yellowish brown (10YR 4/4) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw2—32 to 41 inches; dark yellowish brown (10YR 4/4) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw3—41 to 53 inches; dark yellowish brown (10YR 4/4) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 1 percent fine faint strong brown (7.5YR 4/6) masses of oxidized iron throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw4—53 to 59 inches; dark yellowish brown (10YR 4/4) silt loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 1 percent iron-manganese masses, 25 percent medium faint strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 25 percent medium prominent gray (2.5Y 5/1) iron depletions throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary. (combined thickness of the Bw horizon ranges from 20 to 40 inches)
- C1—59 to 82 inches; dark yellowish brown (10YR 4/4) silt loam; massive; firm; few fine roots throughout; 1 percent medium prominent black (10YR 2/1) iron-manganese masses, 25 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 25 percent medium distinct light olive brown (2.5Y 5/4) iron depletions throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- C2—82 to 94 inches; brown (10YR 4/3) silt loam; massive; firm; few fine roots throughout; 10 percent medium distinct dark yellowish brown (10YR 4/6) masses of oxidized iron throughout, 15 percent medium prominent dark red (2.5YR 3/6) masses of oxidized iron throughout, 25 percent medium distinct gray (2.5Y 5/1) iron depletions throughout, and 25 percent iron-manganese masses; 25 percent

## Soil Survey of Jefferson County, Kentucky

mica flakes; neutral, pH 7.0. (combined thickness of the C horizons ranges from 10 to 40 inches)

### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Aquic conditions, mollic epipedon, and cambic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 41 to 62 inches

*Surface fragments:* None

#### *Ap horizon:*

Hue—7.5YR or 10YR

Value—2 or 3 moist

Chroma—1 to 3 moist

Texture—silt loam

Rock fragments—0 to 1 percent subrounded indurated mixed fine gravel and 0 to 2 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.8

Organic matter content—3.0 to 6.0 percent

#### *Bw horizon:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—3 or 4 moist

Texture—silty clay loam or silt loam

Rock fragments—0 to 1 percent subrounded indurated mixed fine gravel and 0 to 2 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.8

Organic matter content—0.0 to 0.5 percent

#### *C horizon:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—3 or 4 moist

Texture—silty clay loam, fine sandy loam, or silt loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel, 0 to 5 percent subrounded indurated mixed medium and coarse gravel, and 0 to 4 percent subrounded indurated mixed cobbles

Reaction (pH)—5.6 to 7.8

Organic matter content—0.0 to 0.5 percent

## Lawrence Series

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* LaA—Lawrence silt loam, 0 to 2 percent slopes; LaB—Lawrence silt loam, 2 to 6 percent slopes; LbA—Lawrence silt loam, 0 to 2 percent slopes, occasionally flooded; LbB—Lawrence silt loam, 2 to 6 percent slopes, occasionally flooded; UoC—Urban land-Alfic Udarents-Lawrence complex, 0 to 12 percent slopes; UpC—Urban land-Alfic Udarents-Lawrence complex, 0 to 12 percent slopes, rarely flooded

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

## Soil Survey of Jefferson County, Kentucky

*Saturated hydraulic conductivity (Ksat):* Very low

*Landform(s):* Stream terrace in river valley and ridge on upland

*Landform position(s) (two-dimensional):* Summit

*Landform position(s) (three-dimensional):* Tread and interfluvium

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 400 to 700 feet

*Slope:* 0 to 12 percent

*Taxonomic classification:* Fine-silty, mixed, semiactive, mesic Aquic Fragiudalfs

### Typical Pedon

Lawrence silt loam, 0 to 2 percent slopes, occasionally flooded; in a walnut plantation about 0.5 mile northwest of the intersection of State Highway 148 to a farm entrance, about 900 feet north on the farm road toward Floyds Fork, about 700 feet east of the farm road, and about 1,100 feet west of Floyds Fork; USGS Fisherville, Kentucky topographic quadrangle; lat. 38 degrees 11 minutes 34.00 seconds N. and long. 85 degrees 27 minutes 40.00 seconds W.; UTM Zone 16, 634755 meters easting, 4228313 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 10 inches; brown (10YR 4/3) silt loam, light brownish gray (10YR 6/2) dry; weak fine and medium granular structure; very friable; few fine roots throughout; 1 percent fine faint grayish brown (10YR 5/2) iron depletions throughout, 1 percent fine distinct strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 1 percent iron-manganese concretions; slightly acid, pH 6.5; abrupt wavy boundary. (6 to 12 inches thick)

BE—10 to 15 inches; light olive brown (2.5Y 5/3) silt loam; weak fine and medium subangular blocky structure; very friable; few fine roots throughout; 1 percent fine prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout, 1 percent iron-manganese concretions, and 1 percent fine distinct gray (2.5Y 6/1) iron depletions throughout; moderately acid, pH 6.0; abrupt wavy boundary. (0 to 8 inches thick)

Bt1—15 to 23 inches; brown (10YR 5/3) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 10 percent distinct clay films; 1 percent medium faint grayish brown (2.5Y 5/2) iron depletions throughout, 10 percent medium distinct strong brown (7.5YR 5/6) masses of oxidized iron throughout, 10 percent iron-manganese concretions, and 10 percent iron-manganese masses; strongly acid, pH 5.5; abrupt wavy boundary.

Bt2—23 to 27 inches; brown (7.5YR 5/4) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 55 percent distinct clay films; 25 percent fine prominent grayish brown (2.5Y 5/2) iron depletions throughout, 25 percent iron-manganese concretions, and 25 percent iron-manganese masses; very strongly acid, pH 5.0; abrupt wavy boundary. (combined thickness of the Bt horizons ranges from 8 to 25 inches)

Btx—27 to 42 inches; brown (7.5YR 4/4) silt loam; strong coarse prismatic structure parting to moderate medium and coarse subangular blocky; very firm; brittle; light olive brown (2.5Y 5/3), light brownish gray (2.5Y 6/2), grayish brown (2.5Y 5/2), and light gray (2.5Y 7/2) coats on faces of peds; 55 percent distinct clay films; 25 percent iron-manganese concretions and 25 percent iron-manganese masses; very strongly acid, pH 4.5; abrupt wavy boundary. (10 to 30 inches thick)

2Bt—42 to 46 inches; yellowish brown (10YR 5/6) silty clay loam; moderate medium and coarse subangular blocky structure; very firm; brittle; 55 percent distinct clay films; 10 percent medium prominent grayish brown (2.5Y 5/2) iron depletions throughout, 10 percent medium faint brown (7.5YR 4/4) masses of oxidized iron throughout, 10 percent medium faint strong brown (7.5YR 4/6) masses of oxidized

## Soil Survey of Jefferson County, Kentucky

iron throughout, 25 percent iron-manganese concretions, and 25 percent iron-manganese masses; very strongly acid, pH 4.5; clear smooth boundary. (4 to 12 inches thick)

2BC—46 to 60 inches; light olive brown (2.5Y 5/3) silty clay; weak coarse subangular blocky structure; firm; 10 percent iron-manganese masses, 25 percent medium distinct brownish yellow (10YR 6/6) masses of oxidized iron throughout, and 25 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout; slightly acid, pH 6.5; abrupt wavy boundary. (0 to 15 inches thick)

2C—60 to 65 inches; brown (10YR 5/3) silty clay; massive; friable; 25 percent fine distinct strong brown (7.5YR 5/6) masses of oxidized iron throughout and 25 percent iron-manganese masses; 10 percent flat subangular indurated limestone fragments that are  $\frac{1}{10}$  inch to 3 inches in size; neutral, pH 7.0. (4 to 12 inches thick)

### Range in Characteristics

*Depth to restrictive feature:* 18 to 32 inches to a fragipan

*Diagnostic feature(s):* Fragipan, ochric epipedon, aquic conditions, lithologic discontinuity, and argillic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 12 to 25 inches

*Surface fragments:* None

#### *Ap horizon:*

Hue—10YR or 2.5Y

Value—4 or 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—4.5 to 6.5

Organic matter content—1.0 to 4.0 percent

#### *BE and Bt horizons:*

Hue—7.5YR to 2.5Y

Value—5 or 6 moist

Chroma—3 to 6 moist

Texture—silty clay loam or silt loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—4.5 to 6.5

Organic matter content—0.0 to 0.5 percent

#### *Btx and 2Bt horizons:*

Hue—7.5YR to 5Y

Value—4 to 6 moist

Chroma—1 to 8 moist

Texture—silt loam or silty clay loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—4.5 to 5.5

Organic matter content—0.0 to 0.5 percent

#### *2BC and 2C horizons:*

Hue—7.5YR to 5Y

Value—4 to 6 moist

Chroma—1 to 8 moist

Texture—silt loam, silty clay, or silty clay loam

Rock fragments—0 to 5 percent subangular indurated limestone channers and 0 to 8 percent subangular indurated limestone channers

Reaction (pH)—4.5 to 7.3

Organic matter content—0.0 to 0.5 percent

## ***Lindside Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* Ld—Lindside silt loam, occasionally flooded; Ln—Lindside silt loam, frequently flooded

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Flood plain in river valley

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

*Slope:* 0 to 4 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Fluvaquentic Eutrudepts

### **Typical Pedon**

Lindside silt loam, occasionally flooded; in a field of corn stalks about 1,000 feet south of the intersection of Interstate 265 and Stonestreet Road, about 0.5 mile northeast of the intersection of Stonestreet Road and State Highway 1865, into a field of corn stalks about 200 feet northeast of the intersection of State Highway 1865 and Bearcamp Road, and about 50 feet northwest of Bearcamp Run; USGS Valley Station, Kentucky topographic quadrangle; lat. 38 degrees 6 minutes 1.00 seconds N. and long. 85 degrees 48 minutes 53.00 seconds W.; UTM Zone 16, 603916 meters easting, 4217601 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 11 inches; brown (10YR 4/3) silt loam; moderate fine and medium granular structure; very friable; few fine roots throughout; neutral, pH 7.0; clear wavy boundary. (6 to 12 inches thick)

AB—11 to 16 inches; 70 percent brown (10YR 4/3) and 30 percent yellowish brown (10YR 5/4) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; neutral, pH 7.0; clear wavy boundary. (0 to 10 inches thick)

Bw1—16 to 26 inches; yellowish brown (10YR 5/4) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 10 percent medium distinct light brownish gray (2.5Y 6/2) iron depletions throughout; neutral, pH 7.0; clear wavy boundary.

Bw2—26 to 35 inches; light olive brown (2.5Y 5/3) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 10 percent medium faint light brownish gray (2.5Y 6/2) iron depletions throughout; neutral, pH 7.0; clear wavy boundary.

Bw3—35 to 52 inches; light olive brown (2.5Y 5/3) silt loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 1 percent iron-manganese concretions, 25 percent medium distinct gray (2.5Y 6/1) iron depletions throughout, and 25 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout; 5 percent nonflat subrounded indurated mixed rock fragments that are 1/10 inch to 3 inches in size; neutral, pH 7.0; clear

wavy boundary. (combined thickness of the Bw horizons ranges from 30 to 40 inches)

- C1—52 to 72 inches; light olive brown (2.5Y 5/4) silt loam; massive; friable; 10 percent iron-manganese concretions, 25 percent medium distinct gray (2.5Y 6/1) iron depletions throughout, and 25 percent medium faint yellowish brown (10YR 5/6) masses of oxidized iron throughout; 5 percent nonflat subrounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; neutral, pH 7.0; clear wavy boundary.
- C2—72 to 79 inches; light olive brown (2.5Y 5/4) silt loam; massive; friable; 1 percent iron-manganese concretions, 25 percent medium distinct strong brown (7.5YR 5/6) masses of oxidized iron throughout, and 25 percent medium distinct gray (2.5Y 6/1) iron depletions throughout; 5 percent nonflat subrounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; neutral, pH 7.0; abrupt wavy boundary.
- C3—79 to 90 inches; light olive brown (2.5Y 5/3) gravelly silt loam; massive; friable; 1 percent iron-manganese concretions, 25 percent medium distinct gray (2.5Y 6/1) iron depletions throughout, and 25 percent medium distinct yellowish red (5YR 4/6) masses of oxidized iron throughout; 30 percent nonflat subrounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; neutral, pH 7.0.  
(combined thickness of the C horizons ranges from 30 to 50 inches)

#### **Range in Characteristics**

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon, aquic conditions, and cambic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 18 to 36 inches

*Surface fragments:* None

#### *A and AB horizons:*

Hue—7.5YR to 10YR

Value—3 to 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—0 to 2 percent subrounded indurated mixed fine gravel and 0 to 3 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.1 to 7.8

Organic matter content—2.0 to 4.0 percent

#### *Bw horizon:*

Hue—7.5YR to 2.5Y

Value—4 or 5 moist

Chroma—3 to 6 moist

Texture—silt loam, silty clay loam, or very fine sandy loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.1 to 7.8

Organic matter content—0.0 to 0.5 percent

#### *C horizon:*

Hue—7.5YR to 2.5Y

Value—4 to 6 moist

Chroma—1 to 4 moist

Texture—loam, gravelly silt loam, or silty clay loam



Rock fragments—0 to 15 percent subrounded indurated mixed fine gravel and 0 to 15 percent subrounded indurated mixed medium and coarse gravel  
Reaction (pH)—5.6 to 7.8  
Organic matter content—0.0 to 0.5 percent

## **Melvin Series**

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* Me—Melvin silt loam, occasionally flooded; Mf—Melvin silt loam, frequently flooded; UadB—Urban land-Haplic Udarents-Melvin complex, 0 to 6 percent slopes, rarely flooded

*Depth class:* Very deep

*Drainage class:* Poorly drained

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Landform(s):* Flood plain in river valley

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

*Slope:* 0 to 2 percent

*Taxonomic classification:* Fine-silty, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts

### **Typical Pedon**

Melvin silt loam, frequently flooded; in an abandoned field about 0.25 mile southeast of the intersection of State Highway 1934 and Trade Port Road to a utility right-of-way adjacent to Mill Creek, about 0.25 mile north of the intersection of Trade Port Road and the utility right-of-way, and about 25 feet west of Mill Creek to an abandoned field; USGS Lanesville, Indiana topographic quadrangle; lat. 38 degrees 7 minutes 39.00 seconds N. and long. 85 degrees 53 minutes 24.00 seconds W.; UTM Zone 16, 597290 meters easting, 4220559 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- A—0 to 4 inches; grayish brown (10YR 5/2) silt loam; moderate fine and medium granular structure; friable; many fine to coarse roots throughout; 25 percent fine prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout; strongly acid, pH 5.3; clear wavy boundary. (4 to 10 inches thick)
- Bg1—4 to 10 inches; gray (10YR 5/1) silt loam; moderate medium and coarse subangular blocky structure; friable; many fine to coarse roots throughout; 1 percent iron-manganese masses throughout, 10 percent fine prominent red (2.5YR 4/6) masses of oxidized iron throughout, and 25 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout; strongly acid, pH 5.3; clear wavy boundary.
- Bg2—10 to 27 inches; gray (10YR 5/1) silt loam; moderate medium and coarse subangular blocky structure; very firm; common fine and medium roots throughout; 10 percent medium prominent brown (7.5YR 4/4) masses of oxidized iron throughout, 10 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout, and 10 percent iron-manganese masses throughout; strongly acid, pH 5.3; clear wavy boundary.
- Bg3—27 to 40 inches; gray (10YR 5/1) silt loam; moderate medium and coarse subangular blocky structure; very firm; few fine roots throughout; 1 percent iron-manganese masses throughout, 10 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout, and 25 percent medium prominent brown (7.5YR 4/4) masses of oxidized iron throughout; strongly acid, pH 5.3; clear wavy boundary.



- Bg4—40 to 56 inches; gray (10YR 5/1) silt loam; moderate medium and coarse subangular blocky structure; very firm; few fine roots throughout; 10 percent medium prominent reddish brown (5YR 4/4) masses of oxidized iron throughout, 10 percent iron-manganese masses throughout, 10 percent medium distinct light yellowish brown (2.5Y 6/3) masses of oxidized iron throughout, and 10 percent medium prominent brown (7.5YR 4/4) masses of oxidized iron throughout; strongly acid, pH 5.3; clear wavy boundary. (combined thickness of the Bg horizons ranges from 30 to 55 inches)
- Cg1—56 to 64 inches; gray (10YR 6/1) silt loam; weak fine and medium subangular blocky structure; very firm; few fine roots throughout; 1 percent iron-manganese masses throughout, 10 percent medium distinct light yellowish brown (2.5Y 6/3) masses of oxidized iron, 10 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron, and 10 percent medium prominent reddish brown (2.5YR 4/4) masses of oxidized iron; strongly acid, pH 5.3; clear wavy boundary.
- Cg2—64 to 82 inches; gray (10YR 6/1) silt loam; friable; few fine roots throughout; 1 percent iron-manganese masses throughout, 10 percent medium prominent reddish brown (2.5YR 4/4) masses of oxidized iron throughout, and 10 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout; strongly acid, pH 5.3. (combined thickness of the Cg horizons ranges from 10 to 40 inches)

#### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon, aquic conditions, and cambic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 0 to 10 inches

*Surface fragments:* None

#### *A horizon:*

Hue—10YR to 5Y

Value—3 to 7 moist

Chroma—1 to 4 moist

Texture—silt loam

Rock fragments—0 to 2 percent subrounded indurated mixed fine gravel and 0 to 3 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.8

Organic matter content—0.5 to 3.0 percent

#### *Bg horizon:*

Hue—10YR to 5Y

Value—4 to 7 moist

Chroma—2 or less, moist

Texture—silty clay loam or silt loam

Rock fragments—0 to 2 percent subrounded indurated mixed fine gravel and 0 to 3 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.8

Organic matter content—0.5 to 2.0 percent

#### *Cg horizon:*

Hue—10YR to 5Y

Value—4 to 7 moist

Chroma—0 to 2 moist

Texture—silt loam, loam, or silty clay loam

Rock fragments—0 to 4 percent subrounded indurated mixed fine gravel and 0 to 10 percent subrounded indurated mixed medium and coarse gravel  
Reaction (pH)—5.6 to 7.8  
Organic matter content—0.2 to 1.0 percent

## ***Nelse Series***

*Major land resource area:* 121, Kentucky Bluegrass  
*State physiographic area:* Outer Bluegrass  
*Map unit(s):* CnF—Chagrin-Nelse-Wheeling complex, 2 to 75 percent slopes, frequently flooded  
*Depth class:* Very deep  
*Drainage class:* Well drained  
*Saturated hydraulic conductivity (Ksat):* High  
*Landform(s):* Flood plain in river valley  
*Parent material:* Mixed, coarse-loamy alluvium of the Quaternary System  
*Elevation:* 380 to 500 feet  
*Slope:* 2 to 25 percent  
*Taxonomic classification:* Coarse-loamy, mixed, active, nonacid, mesic Mollic Udifluvents

### **Typical Pedon**

Nelse stratified loam to fine sandy loam in an area of Chagrin-Nelse-Wheeling complex, 2 to 75 percent slopes, frequently flooded; on a woodland river bank about 1 mile north of the intersection of Interstate 265 and U.S. Highway 42, about 0.3 mile northwest of the intersection of U.S. Highway 42 and Timber Ridge Road, about 600 feet southwest of the intersection of Timber Ridge Road and River Road, about 1 mile northwest of the intersection of River Road and Mayfair Avenue toward Transylvania Beach, about 600 feet northwest of the intersection of Mayfair Avenue and the steep woodland bluff to the Ohio River, and about 25 feet southeast of the Ohio River; USGS Jeffersonville, Indiana topographic quadrangle; lat. 38 degrees 20 minutes 46.00 seconds N. and long. 85 degrees 38 minutes 18.00 seconds W.; UTM Zone 16, 619001 meters easting, 4245106 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- A—0 to 12 inches; very dark grayish brown (10YR 3/2) stratified loam to fine sandy loam; weak fine and medium granular structure; very friable; many fine to coarse roots throughout; neutral, pH 7.2; abrupt wavy boundary. (10 to 20 inches thick)
- C1—12 to 16 inches; yellowish brown (10YR 5/4) stratified loam to sandy loam; massive; very friable; common fine to coarse roots throughout; neutral, pH 7.1; abrupt wavy boundary.
- C2—16 to 30 inches; dark yellowish brown (10YR 3/4) stratified fine sandy loam to sandy loam; massive; very friable; few fine to coarse roots throughout; neutral, pH 7.2; clear wavy boundary.
- C3—30 to 63 inches; dark yellowish brown (10YR 4/4) and brown (10YR 4/3) stratified loam to sandy loam; massive; very friable; few fine to coarse roots throughout; neutral, pH 7.2; clear wavy boundary.
- C4—63 to 100 inches; brown (10YR 4/3) stratified loam to sandy loam; massive; very friable; few fine to coarse roots throughout; neutral, pH 7.0. (combined thickness of the C horizons ranges from 55 to 100 inches or more)

### **Range in Characteristics**

*Depth to restrictive feature:* More than 80 inches  
*Diagnostic feature(s):* Ochric epipedon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

*A horizon:*

Hue—10YR or 2.5Y

Value—2 to 5 moist

Chroma—2 to 4 moist

Texture—stratified loam to fine sandy loam

Rock fragments—0 to 4 percent subrounded indurated mixed fine gravel, 0 to 7 percent subrounded indurated mixed medium and coarse gravel, and 0 to 3 percent subrounded indurated mixed cobbles

Reaction (pH)—5.1 to 8.4

Organic matter content—2.0 to 10.0 percent

*C horizon:*

Hue—10YR or 2.5Y

Value—3 to 6 moist

Chroma—2 to 6 moist

Texture—loamy fine sand, stratified loam to sandy loam, fine sandy loam, or sandy loam

Rock fragments—0 to 4 percent subrounded indurated mixed fine gravel, 0 to 7 percent subrounded indurated mixed medium and coarse gravel, and 0 to 3 percent subrounded indurated mixed cobbles

Reaction (pH)—5.1 to 8.4

Organic matter content—0.3 to 1.0 percent

## ***Newark Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* Ne—Newark silt loam, occasionally flooded; Nf—Newark silt loam, frequently flooded; UaeB—Urban land-Haplic Udarents-Newark complex, 0 to 6 percent slopes, rarely flooded

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Flood plain in river valley

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 380 to 800 feet

*Slope:* 0 to 2 percent

*Taxonomic classification:* Fine-silty, mixed, active, nonacid, mesic Fluventic Endoaquepts

### **Typical Pedon**

Newark silt loam, frequently flooded; in a walnut plantation about 0.5 mile northwest of the intersection of State Highway 148 to a farm entrance, about 1,800 feet north on the farm road toward Floyds Fork, about 30 feet west of the farm road, and about 800 feet south of Floyds Fork; USGS Fisherville, Kentucky topographic quadrangle; lat. 38 degrees 11 minutes 43.00 seconds N. and long. 85 degrees 27 minutes 48.00 seconds W.; UTM Zone 16, 634569 meters easting, 4228604 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 6 inches; brown (10YR 4/3) silt loam; weak fine and medium granular structure; very friable; common fine and medium roots throughout; 2 percent

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- nonflat subrounded very strongly cemented siltstone fragments that are 2 to 75 millimeters in size; neutral, pH 7.0; clear wavy boundary. (5 to 10 inches thick)
- Bw—6 to 14 inches; olive brown (2.5Y 4/3) silt loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 1 percent fine distinct light olive brown (2.5Y 5/6) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary. (4 to 16 inches thick)
- Bg1—14 to 24 inches; gray (10YR 5/1) silt loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 1 percent iron-manganese concretions and 1 percent fine distinct brown (7.5YR 4/4) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary.
- Bg2—24 to 36 inches; grayish brown (2.5Y 5/2) silt loam; weak fine subangular blocky structure; friable; few fine roots throughout; 1 percent iron-manganese concretions, 25 percent medium prominent brown (7.5YR 4/4) masses of oxidized iron throughout, and 25 percent medium distinct light yellowish brown (2.5Y 6/4) iron depletions throughout; neutral, pH 7.0; clear wavy boundary.
- Bg3—36 to 41 inches; gray (10YR 5/1) silt loam; weak fine subangular blocky structure; friable; few fine roots throughout; 10 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary. (combined thickness of the Bg horizons ranges from 10 to 30 inches)
- Cg1—41 to 49 inches; gray (10YR 5/1) silt loam; massive; friable; 10 percent iron-manganese masses, 25 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 25 percent medium prominent light yellowish brown (2.5Y 6/4) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary.
- Cg2—49 to 52 inches; grayish brown (2.5Y 5/2) silt loam; massive; friable; 1 percent iron-manganese concretions and 25 percent medium distinct brown (7.5YR 4/4) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary.
- Cg3—52 to 56 inches; grayish brown (10YR 5/2) silt loam; massive; friable; 1 percent iron-manganese concretions, 25 percent medium distinct brown (7.5YR 4/4) masses of oxidized iron throughout, and 25 percent medium prominent light olive brown (2.5Y 5/6) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary. (combined thickness of the Cg horizons ranges from 15 to 30 inches)
- C1—56 to 61 inches; light yellowish brown (2.5Y 6/4) silt loam; massive; friable; 10 percent iron-manganese concretions, 25 percent medium distinct yellowish brown (10YR 5/6) masses of oxidized iron throughout, and 25 percent medium distinct grayish brown (10YR 5/2) iron depletions throughout; neutral, pH 7.0; clear wavy boundary.
- C2—61 to 71 inches; grayish brown (10YR 5/2), brown (7.5YR 4/4), and light yellowish brown (2.5Y 6/4) silt loam; massive; friable; neutral, pH 7.0; clear wavy boundary.
- C3—71 to 80 inches; light yellowish brown (2.5Y 6/4) silt loam; massive; friable; 10 percent iron-manganese concretions, 25 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 25 percent medium distinct grayish brown (2.5Y 5/2) iron depletions throughout; neutral, pH 7.0; clear wavy boundary.
- C4—80 to 98 inches; light yellowish brown (2.5Y 6/4) silt loam; massive; friable; 25 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout, 25 percent medium distinct grayish brown (2.5Y 5/2) iron depletions throughout, and 25 percent iron-manganese concretions; neutral, pH 7.0. (combined thickness of the C horizons ranges from 20 to 50 inches)

### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon, aquic conditions, and cambic horizon

*Surface fragments:* None

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*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 12 to 18 inches

*Surface fragments:* None

*Ap horizon:*

Hue—7.5YR to 2.5Y

Value—4 or 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—0 to 2 percent subrounded very strongly cemented mixed fine gravel and 0 to 3 percent subrounded very strongly cemented mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.8

Organic matter content—1.0 to 4.0 percent

*Bw and Bg horizons:*

Hue—7.5YR to 2.5Y

Value—4 to 7 moist

Chroma—1 to 4 moist

Texture—silt loam or silty clay loam

Rock fragments—0 to 2 percent subrounded very strongly cemented mixed fine gravel and 0 to 3 percent subrounded very strongly cemented mixed medium and coarse gravel

Reaction (pH)—5.6 to 7.8

Organic matter content—0.0 to 0.5 percent

*Cg and C horizons:*

Hue—7.5YR to 2.5Y

Value—4 to 7 moist

Chroma—1 to 4 moist

Texture—silt loam or silty clay loam

Rock fragments—0 to 7 percent subrounded very strongly cemented mixed fine gravel and 0 to 7 percent subrounded very strongly cemented mixed medium and coarse gravel

Reaction—pH 5.6 to 7.8

Organic matter content—0.0 to 0.5 percent

## ***Nicholson Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* NnA—Nicholson silt loam, 0 to 2 percent slopes; NnB—Nicholson silt loam, 2 to 6 percent slopes; NnC—Nicholson silt loam, 6 to 12 percent slopes; UqC—Urban land-Alfic Udarents-Nicholson complex, 0 to 12 percent slopes

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Saturated hydraulic conductivity (Ksat):* Very low

*Landform(s):* Ridge on upland

*Landform position(s) (two-dimensional):* Summit and shoulder

*Landform position(s) (three-dimensional):* Interfluvium and side slope

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and dolomite of the Silurian and Ordovician Systems

*Elevation:* 500 to 800 feet

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*Slope:* 0 to 12 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs

### Typical Pedon

Nicholson silt loam, 2 to 6 percent slopes; in a pasture about 1,800 feet south of the intersection of Interstate 265 and State Highway 1020, about 1.75 miles southwest of the intersection of State Highway 1020 and Fairdale Road, about 2.5 miles southwest of the intersection of Fairdale Road and Mitchell Hill Road, about 2.25 miles southeast of the intersection of Mitchell Hill Road and Holsclaw Hill Road to the entrance of the Jefferson County Memorial Forest, about 0.75 mile southwest on a park road, and about 100 feet south through a pasture toward the Jefferson-Bullitt County line; USGS Valley Station, Kentucky topographic quadrangle; lat. 38 degrees 4 minutes 28.00 seconds N. and long. 85 degrees 45 minutes 38.00 seconds W.; UTM Zone 16, 608716 meters easting, 4214805 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- Ap—0 to 7 inches; brown (10YR 4/3) silt loam; moderate fine and medium granular structure; very friable; common fine roots throughout; slightly acid, pH 6.5; clear wavy boundary. (5 to 10 inches thick)
- Bt1—7 to 15 inches; strong brown (7.5YR 5/6) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 30 percent distinct clay films; slightly acid, pH 6.5; clear wavy boundary.
- Bt2—15 to 21 inches; strong brown (7.5YR 4/6) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 55 percent distinct clay films; 1 percent fine prominent light yellowish brown (2.5Y 6/4) iron depletions throughout; slightly acid, pH 6.5; clear wavy boundary.
- Bt3—21 to 27 inches; strong brown (7.5YR 4/6) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 55 percent distinct clay films; 10 percent medium prominent light yellowish brown (2.5Y 6/3) iron depletions throughout and 10 percent medium faint yellowish red (5YR 4/6) masses of oxidized iron throughout; strongly acid, pH 5.5; clear wavy boundary. (combined thickness of the Bt horizons ranges from 10 to 30 inches)
- Btx1—27 to 37 inches; strong brown (7.5YR 5/6) silt loam; moderate medium and coarse prismatic structure parting to moderate fine and medium subangular blocky; firm; few fine roots in cracks; 55 percent distinct clay films; 25 percent medium prominent light brownish gray (2.5Y 6/2) iron depletions throughout and 25 percent medium faint reddish brown (5YR 4/4) masses of oxidized iron throughout; strongly acid, pH 5.5; clear wavy boundary.
- Btx2—37 to 59 inches; yellowish brown (10YR 5/6) silt loam; moderate medium and coarse prismatic structure parting to moderate fine and medium subangular blocky; very firm; few fine roots in cracks; 30 percent manganese or iron-manganese stains and 55 percent distinct clay films; 25 percent medium prominent light brownish gray (10YR 6/2) iron depletions throughout and 25 percent medium faint strong brown (7.5YR 5/6) masses of oxidized iron throughout; strongly acid, pH 5.5; abrupt wavy boundary. (combined thickness of the Btx horizons ranges from 12 to 36 inches)
- 2Bt—59 to 74 inches; red (2.5YR 4/6) silty clay loam; weak fine subangular blocky structure; very firm; 35 percent distinct clay films; 10 percent medium prominent light brownish gray (10YR 6/2) and 10 percent medium prominent light brown (7.5YR 6/4) iron depletions throughout; moderately acid, pH 5.8; clear wavy boundary. (5 to 10 inches thick)
- 2C—74 to 87 inches; red (2.5YR 4/6) silty clay; massive; very firm; medium prominent light yellowish brown (2.5Y 6/4) and medium prominent gray (10YR 6/1) iron depletions; neutral, pH 6.8. (5 to 20 inches thick)



**Range in Characteristics**

*Depth to restrictive feature:* 16 to 30 inches to a fragipan

*Diagnostic feature(s):* Fragipan, ochric epipedon, aquic conditions, lithologic discontinuity, and argillic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 18 to 30 inches

*Surface fragments:* None

*Ap horizon:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—none

Reaction (pH)—4.5 to 6.5

Organic matter content—2.0 to 4.0 percent

*Bt horizon:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—3 to 6 moist

Texture—silty clay loam or silt loam

Rock fragments—none

Reaction (pH)—4.5 to 6.5

Organic matter content—0.0 to 0.5 percent

*Btx horizon:*

Hue—7.5YR to 2.5Y

Value—3 to 5 moist

Chroma—4 to 8 moist

Texture—silty clay loam or silt loam

Rock fragments—none

Reaction (pH)—4.5 to 6.5

Organic matter content—0.0 to 0.5 percent

*2Bt horizon:*

Hue—2.5YR to 2.5Y

Value—4 to 6 moist

Chroma—4 to 8 moist

Texture—silty clay loam, silt loam, or silty clay

Rock fragments—0 to 13 percent subangular very strongly cemented sedimentary channers and 0 to 1 percent subangular very strongly cemented sedimentary flagstones

Reaction (pH)—4.5 to 6.5

Organic matter content—0.0 to 0.5 percent

*2C horizon:*

Hue—2.5YR to 2.5Y

Value—4 to 6 moist

Chroma—4 to 8 moist

Texture—silty clay, clay, or channery clay

Rock fragments—0 to 25 percent subangular very strongly cemented sedimentary channers and 0 to 10 percent subangular very strongly cemented sedimentary flagstones



Reaction (pH)—5.1 to 7.8  
Organic matter content—0.0 to 0.5 percent

## ***Nolin Series***

*Major land resource area:* 121, Kentucky Bluegrass  
*State physiographic area:* Outer Bluegrass  
*Map unit(s):* No—Nolin silt loam, occasionally flooded  
*Depth class:* Very deep  
*Drainage class:* Well drained  
*Saturated hydraulic conductivity (Ksat):* Moderately high  
*Landform(s):* Flood plain in river valley  
*Parent material:* Mixed, fine-silty alluvium of the Quaternary System  
*Elevation:* 380 to 800 feet  
*Slope:* 0 to 4 percent  
*Taxonomic classification:* Fine-silty, mixed, active, mesic Fluventic Eutrudepts

### **Typical Pedon**

Nolin silt loam, occasionally flooded; in a walnut plantation about 0.5 mile northwest of the intersection of State Highway 148 to a farm entrance, about 2,000 feet north on the farm road toward Floyds Fork, about 500 feet east along Floyds Fork, and about 75 feet southwest of Floyds Fork; USGS Fisherville, Kentucky topographic quadrangle; lat. 38 degrees 11 minutes 45.00 seconds N. and long. 85 degrees 27 minutes 34.00 seconds W.; UTM Zone 16, 634896 meters easting, 4228661 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- Ap—0 to 10 inches; dark grayish brown (10YR 4/2) silt loam, pale brown (10YR 6/3) dry; weak fine and medium granular structure; very friable; common fine roots throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary. (6 to 12 inches thick)
- Bw1—10 to 20 inches; dark yellowish brown (10YR 4/4) silt loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw2—20 to 43 inches; brown (10YR 4/3) silt loam; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 1 percent iron-manganese masses; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw3—43 to 56 inches; dark yellowish brown (10YR 4/4) silt loam; weak fine and medium subangular blocky structure; firm; few fine roots throughout; 10 percent iron-manganese masses; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw4—56 to 66 inches; brown (10YR 4/3) silt loam; 1 percent medium prominent light yellowish brown (2.5Y 6/3) mottles; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 1 percent iron-manganese masses and 1 percent medium distinct light yellowish brown (2.5Y 6/3) iron depletions throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw5—66 to 76 inches; brown (10YR 4/3) silt loam; 1 percent medium prominent light yellowish brown (2.5Y 6/3) mottles; weak fine and medium subangular blocky structure; friable; few fine roots throughout; 1 percent medium distinct light yellowish brown (2.5Y 6/3) iron depletions throughout and 10 percent iron-manganese masses; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.
- Bw6—76 to 82 inches; brown (10YR 4/3) silt loam; weak fine subangular blocky structure; friable; 10 percent medium distinct light yellowish brown (2.5Y 6/4) iron depletions throughout, 10 percent medium distinct strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 10 percent iron-manganese masses; 25

percent mica flakes; neutral, pH 7.0; clear wavy boundary. (combined thickness of the Bw horizons ranges from 30 to 100 inches)

- BC—82 to 91 inches; brown (10YR 4/3) silt loam; weak fine subangular blocky structure; friable; 1 percent medium prominent light yellowish brown (2.5Y 6/4) iron depletions throughout, 1 percent medium distinct strong brown (7.5YR 4/6) masses of oxidized iron throughout, and 10 percent iron-manganese masses; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary. (0 to 12 inches thick)
- C—91 to 101 inches; brown (10YR 4/3) loam; massive; friable; 10 percent iron-manganese masses; 25 percent mica flakes; neutral, pH 7.0. (6 to 12 inches thick)

#### **Range in Characteristics**

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon, aquic conditions, and cambic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *Ap horizon:*

Hue—10YR or 2.5Y

Value—4 or 5 moist

Chroma—2 or 3 moist

Texture—silt loam

Rock fragments—0 to 2 percent rounded indurated mixed fine gravel and 0 to 3 percent rounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 8.4

Organic matter content—2.0 to 4.0 percent

#### *Bw horizon:*

Hue—7.5YR or 2.5Y

Value—4 or 5 moist

Chroma—3 to 6 moist

Texture—silt loam or silty clay loam

Rock fragments—0 to 2 percent rounded indurated mixed fine gravel and 0 to 3 percent rounded indurated mixed medium and coarse gravel

Reaction (pH)—5.6 to 8.4

Organic matter content—0.3 to 2.0 percent

#### *BC and C horizons:*

Hue—7.5YR or 2.5Y

Value—4 or 5 moist

Chroma—2 to 6 moist

Texture—silty clay loam, gravelly loam, loam, or silt loam

Rock fragments—0 to 15 percent rounded indurated mixed fine gravel and 0 to 20 percent rounded indurated mixed medium and coarse gravel

Reaction (pH)—5.1 to 8.4

Organic matter content—0.3 to 2.0 percent

### **Otwood Series**

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* OtA—Otwood silt loam, 0 to 2 percent slopes; OtB—Otwood silt loam, 2 to 6 percent slopes; OtC—Otwood silt loam, 6 to 12 percent slopes;  
OwA—Otwood silt loam, 0 to 2 percent slopes, occasionally flooded;  
OwB—Otwood silt loam, 2 to 6 percent slopes, occasionally flooded;

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OwC—Otwood silt loam, 6 to 12 percent slopes, occasionally flooded;  
UrC—Urban land-Alfic Udarents-Otwood complex, 0 to 12 percent slopes;  
UsC—Urban land-Alfic Udarents-Otwood complex, 0 to 12 percent slopes, rarely flooded

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Saturated hydraulic conductivity (Ksat):* Very low

*Landform(s):* Stream terrace in river valley

*Landform position(s) (three-dimensional):* Tread

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

*Slope:* 0 to 12 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs

### Typical Pedon

Otwood silt loam, 2 to 6 percent slopes; in a hayfield about 900 feet south of the intersection of State Highway 1934 and State Highway 1230 to the entrance of the Farnsley-Moremeyn Riverside Landing Park, about 900 feet northwest of the intersection of State Highway 1230 and Moorman Road, about 1,800 feet northwest of Moorman Road into a hayfield, and about 1,200 feet east of the Ohio River; USGS Kosmosdale, Indiana topographic quadrangle; lat. 38 degrees 6 minutes 3.00 seconds N. and long. 85 degrees 53 minutes 42.00 seconds W.; UTM Zone 16, 596871 meters easting, 4217582 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 10 inches; brown (10YR 4/3) silt loam; weak fine and medium granular structure; very friable; common fine roots throughout; 1 percent mica flakes; slightly acid, pH 6.5; clear wavy boundary. (6 to 12 inches thick)

Bt1—10 to 22 inches; yellowish brown (10YR 5/4) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 30 percent distinct brown (10YR 5/3) clay films on all faces of peds; 1 percent fine dark brown (10YR 3/3) and black (10YR 2/1) iron-manganese masses on faces of peds; 10 percent mica flakes; neutral, pH 7.0; clear wavy boundary.

Bt2—22 to 27 inches; yellowish brown (10YR 5/4) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 55 percent distinct brown (10YR 5/3) clay films on all faces of peds; 1 percent fine black (10YR 2/1) and dark brown (10YR 3/3) iron-manganese masses on faces of peds and 1 percent fine distinct light brownish gray (10YR 6/2) iron depletions on faces of peds; 10 percent mica flakes; strongly acid, pH 5.5; clear wavy boundary. (combined thickness of the Bt horizons ranges from 12 to 24 inches)

Btx1—27 to 34 inches; brown (7.5YR 4/4) silt loam; weak very coarse prismatic structure parting to moderate medium subangular blocky; very firm; brittle; few very fine roots in cracks; 10 percent distinct yellowish brown (10YR 5/4) clay films on vertical faces of peds and 35 percent light yellowish brown (2.5Y 6/3) and gray (2.5Y 6/1) silt coats on vertical faces of peds; 1 percent fine and medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout, 1 percent fine prominent black (10YR 2/1) manganese masses on vertical faces of peds, and 10 percent fine and medium dark reddish brown (5YR 3/3) and black (10YR 2/1) iron-manganese concretions in matrix; 10 percent mica flakes; 2 percent nonflat subrounded indurated mixed rock fragments that are 1/10 inch to 3 inches in size; very strongly acid, pH 4.5; gradual wavy boundary.

Btx2—34 to 42 inches; brown (7.5YR 4/4) silt loam; weak very coarse prismatic structure parting to moderate medium and coarse subangular blocky; very firm; brittle; 35 percent light brownish gray (10YR 6/2) silt coats on vertical faces of

## Soil Survey of Jefferson County, Kentucky

- pedes and 55 percent distinct dark brown (7.5YR 3/4) and strong brown (7.5YR 4/6) clay films on vertical faces of pedes; 10 percent fine prominent black (10YR 2/1) manganese coatings on faces of pedes and 25 percent medium faint reddish brown (5YR 4/4) masses of oxidized iron throughout; 10 percent mica flakes; very strongly acid, pH 4.5; clear wavy boundary.
- B<sub>tx</sub>3—42 to 46 inches; brown (7.5YR 4/4) silt loam; weak very coarse prismatic structure parting to moderate medium subangular blocky; very firm; brittle; 35 percent light brownish gray (10YR 6/2) silt coats on vertical faces of pedes and 55 percent distinct dark brown (7.5YR 3/4) clay films on vertical faces of pedes; 25 percent medium faint reddish brown (5YR 4/4) masses of oxidized iron throughout; 10 percent mica flakes; 5 percent nonflat subrounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; strongly acid, pH 5.5; clear wavy boundary. (combined thickness of the B<sub>tx</sub> horizons ranges from 14 to 36 inches)
- B<sub>t</sub>1—46 to 64 inches; brown (7.5YR 4/4) silt loam; moderate medium and coarse subangular blocky structure; firm; 30 percent distinct dark brown (7.5YR 3/4) clay films on all faces of pedes; 10 percent medium prominent light brownish gray (10YR 6/2) iron depletions throughout and 10 percent fine dark brown (10YR 3/3) and black (10YR 2/1) iron-manganese masses on faces of pedes; 10 percent mica flakes; 5 percent nonflat subrounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; strongly acid, pH 5.5; clear wavy boundary.
- B<sub>t</sub>2—64 to 70 inches; brown (7.5YR 4/4) silt loam; moderate fine and medium subangular blocky structure; friable; 30 percent distinct dark brown (7.5YR 3/4) clay films on all faces of pedes; 10 percent medium prominent gray (2.5Y 6/1) iron depletions throughout, 10 percent medium prominent dark red (2.5YR 3/6) masses of oxidized iron throughout, and 10 percent fine dark brown (10YR 3/3) and black (10YR 2/1) iron-manganese masses on faces of pedes; 10 percent mica flakes; 8 percent nonflat subrounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; very strongly acid, pH 5.0; clear wavy boundary.
- B<sub>t</sub>3—70 to 83 inches; brown (7.5YR 4/4) loam; weak medium subangular blocky structure; friable; 10 percent distinct dark brown (7.5YR 3/4) clay films on all faces of pedes; 1 percent fine prominent dark red (2.5YR 3/6) masses of oxidized iron throughout, 10 percent medium prominent gray (2.5Y 5/1) iron depletions throughout, and 10 percent fine dark brown (10YR 3/3) and black (10YR 2/1) iron-manganese masses on faces of pedes; 10 percent mica flakes; 2 percent nonflat subrounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; very strongly acid, pH 5.0; abrupt wavy boundary. (combined thickness of the B<sub>t</sub> horizons ranges from 20 to 40 inches)
- C1—83 to 87 inches; brown (7.5YR 4/4) loam; massive; friable; 10 percent fine dark brown (10YR 3/3) and black (10YR 2/1) iron-manganese masses throughout; 10 percent mica flakes; strongly acid, pH 5.5; clear wavy boundary.
- C2—87 to 91 inches; dark yellowish brown (10YR 4/4) sandy loam; massive; friable; 1 percent fine dark brown (10YR 3/3) and black (10YR 2/1) iron-manganese masses throughout; 10 percent mica flakes; strongly acid, pH 5.5. (combined thickness of the C horizons ranges from 6 to 20 inches)

### Range in Characteristics

*Depth to restrictive feature:* 20 to 36 inches to a fragipan

*Diagnostic feature(s):* Fragipan, ochric epipedon, aquic conditions, and argillic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 15 to 30 inches

*Surface fragments:* None

## Soil Survey of Jefferson County, Kentucky

### *Ap horizon:*

Hue—10YR or 2.5Y  
Value—4 or 5 moist  
Chroma—2 to 4 moist  
Texture—silt loam  
Rock fragments—0 to 2 percent subrounded indurated mixed fine gravel and 0 to 3 percent subrounded indurated mixed medium and coarse gravel  
Reaction (pH)—4.5 to 7.3  
Organic matter content—0.5 to 2.0 percent

### *Bt horizon:*

Hue—7.5YR to 2.5Y  
Value—4 to 6 moist  
Chroma—4 to 8 moist  
Texture—silt loam or silty clay loam  
Rock fragments—0 to 2 percent subrounded indurated mixed fine gravel and 0 to 3 percent subrounded indurated mixed medium and coarse gravel  
Reaction (pH)—4.5 to 5.5  
Organic matter content—0.0 to 0.5 percent

### *Btx horizon:*

Hue—7.5YR to 2.5Y  
Value—4 to 6 moist  
Chroma—1 to 8 moist  
Texture—silt loam or silty clay loam  
Rock fragments—0 to 7 percent subrounded indurated mixed fine gravel and 0 to 7 percent subrounded indurated mixed medium and coarse gravel  
Reaction (pH)—4.5 to 5.5  
Organic matter content—0.0 to 0.5 percent

### *B<sup>t</sup> horizon:*

Hue—7.5YR to 2.5Y  
Value—4 to 6 moist  
Chroma—1 to 8 moist  
Texture—loam, silty clay loam, or silt loam  
Rock fragments—0 to 7 percent subrounded indurated mixed fine gravel and 0 to 7 percent subrounded indurated mixed medium and coarse gravel  
Reaction (pH)—5.1 to 6.5  
Organic matter content—0.0 to 0.5 percent

### *C horizon:*

Hue—5YR to 2.5Y  
Value—3 to 7 moist  
Chroma—1 to 8 moist  
Texture—stratified sandy loam to loam, stratified silt loam to clay, or stratified fine sandy loam to silty clay loam  
Rock fragments—0 to 7 percent subrounded indurated mixed fine gravel and 0 to 7 percent subrounded indurated mixed medium and coarse gravel  
Calcium carbonate equivalent—0 to 20 percent  
Reaction (pH)—5.1 to 8.4  
Organic matter content—0.0 to 0.5 percent

## **Patton Series**

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass



## Soil Survey of Jefferson County, Kentucky

*Map unit(s)*: Pa—Patton silt loam, ponded

*Depth class*: Very deep

*Drainage class*: Very poorly drained

*Saturated hydraulic conductivity (Ksat)*: Moderately low

*Landform(s)*: Stream terrace in river valley

*Landform position(s) (three-dimensional)*: Tread

*Parent material*: Mixed, fine-silty alluvium of the Quaternary System

*Elevation*: 400 to 600 feet

*Slope*: 0 to 2 percent

*Taxonomic classification*: Fine-silty, mixed, superactive, mesic Typic Endoaquolls

### Typical Pedon

Patton silt loam, ponded; in an abandoned pasture (that is now part of Floyds Fork Park) about 1.25 miles east of the intersection of the Interstate 265 and State Highway 155, about 1,800 feet south of the intersection of State Highway 155 and Pope Lick Road to the entrance of the parking lot to Floyds Fork Park, about 300 feet west to the northwest corner of the parking lot, about 300 feet northwest of the parking lot into an abandoned pasture, and about 350 feet west of Floyds Fork; USGS Fisherville, Kentucky topographic quadrangle; lat. 38 degrees 11 minutes 8.00 seconds N. and long. 85 degrees 29 minutes 22.00 seconds W.; UTM Zone 16, 632290 meters easting, 4227470 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 11 inches; very dark grayish brown (10YR 3/2) silt loam; weak fine granular structure; very friable; many fine and medium roots throughout; 10 percent iron-manganese concretions throughout; neutral, pH 7.0; abrupt smooth boundary. (10 to 18 inches thick)

Bg1—11 to 22 inches; very dark gray (10YR 3/1) silty clay loam; moderate medium subangular blocky structure; friable; few fine and medium roots throughout; 10 percent iron-manganese concretions throughout and 25 percent fine distinct dark gray (N 4/0) iron depletions throughout; neutral, pH 7.0; clear wavy boundary.

Bg2—22 to 48 inches; dark gray (2.5Y 4/1) silty clay loam; moderate medium subangular blocky structure; firm; few fine roots throughout; 10 percent iron-manganese concretions throughout and 25 percent fine prominent brown (7.5YR 4/4) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary. (combined thickness of the Bg horizons ranges from 16 to 37 inches)

Cg1—48 to 60 inches; gray (10YR 6/1) silty clay loam; massive; firm; 25 percent medium distinct light yellowish brown (2.5Y 6/3) iron depletions throughout, 25 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout, and 25 percent medium iron-manganese concretions throughout; neutral, pH 7.0; clear wavy boundary.

Cg2—60 to 75 inches; light brownish gray (2.5Y 6/2) and strong brown (7.5YR 5/6) silty clay loam; massive; firm; 25 percent medium iron-manganese concretions throughout; neutral, pH 7.0; clear wavy boundary.

Cg3—75 to 85 inches; gray (10YR 5/1) silty clay loam; massive; firm; 10 percent medium iron-manganese concretions throughout and 10 percent medium prominent brown (7.5YR 4/4) masses of oxidized iron throughout; neutral, pH 7.0. (combined thickness of the Cg horizons ranges from 20 to 40 inches)

### Range in Characteristics

*Depth to restrictive feature*: More than 80 inches

*Diagnostic feature(s)*: Aquic conditions, mollic epipedon, and cambic horizon

*Surface fragments*: None

*Seasonal high water table (months)*: January, February, March, April, May, November, and December

*Depth to top of water table:* 0 to 12 inches

*Surface fragments:* None

*A horizon:*

Hue—10YR

Value—2 or 3 moist

Chroma—1 or 2 moist

Texture—silt loam

Rock fragments—0 to 2 percent subrounded indurated mixed fine gravel and 0 to 2 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—6.6 to 7.3

Organic matter content—1.0 to 5.0 percent

*Bg horizon:*

Hue—10YR to 5Y

Value—3 to 5 moist

Chroma—1 or 2 moist

Texture—silty clay loam

Rock fragments—0 to 2 percent subrounded indurated mixed fine gravel and 0 to 2 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—6.1 to 7.8

Organic matter content—0.5 to 1.2 percent

*Cg horizon:*

Hue—10YR to 5Y

Value—4 to 6 moist

Chroma—1 or 2 moist

Texture—stratified silt loam to silty clay loam, silt loam, or silty clay loam

Rock fragments—0 to 2 percent subrounded indurated mixed fine gravel and 0 to 2 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—7.4 to 8.4

Organic matter content—0.2 to 0.8 percent

## ***Robertsville Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* RoA—Robertsville silt loam, 0 to 2 percent slopes; RpA—Robertsville silt loam, 0 to 2 percent slopes, ponded; UtC—Urban land-Alfic Udarents-Robertsville complex, 0 to 12 percent slopes

*Depth class:* Very deep

*Drainage class:* Poorly drained

*Saturated hydraulic conductivity (Ksat):* Very low

*Landform(s):* Depressions on a stream terrace in a river valley and ridges on uplands

*Landform position(s) (two-dimensional):* Summit

*Landform position(s) (three-dimensional):* Tread and interfluve

*Parent material:* Mixed, fine-silty alluvium of the Quaternary System

*Elevation:* 400 to 700 feet

*Slope:* 0 to 2 percent

*Taxonomic classification:* Fine-silty, mixed, semiactive, mesic Typic Fragiaqualfs

### **Typical Pedon**

Robertsville silt loam, 0 to 2 percent slopes, ponded; in a woodlot about 1,000 feet north of the intersection of State Highway 1934 and Bethany Lane, about 50 feet east into the highway right-of-way; USGS Kosmosdale, Indiana topographic quadrangle; lat.



## Soil Survey of Jefferson County, Kentucky

38 degrees 6 minutes 24.00 seconds N. and long. 85 degrees 53 minutes 33.00 seconds W.; UTM Zone 16, 597095 meters easting, 4218246 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- Ap—0 to 10 inches; grayish brown (2.5Y 5/2) silt loam; moderate fine and medium granular structure; friable; common fine and medium roots throughout; 10 percent medium brownish yellow (10YR 6/6) masses of oxidized iron throughout; slightly acid, pH 6.5; abrupt wavy boundary.
- Bg—10 to 16 inches; light brownish gray (2.5Y 6/2) silt loam; moderate fine and medium subangular blocky structure; firm; few fine roots throughout; 1 percent iron-manganese concretions, 1 percent iron-manganese masses, and 10 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout; very strongly acid, pH 5.0; clear wavy boundary.
- Btx1—16 to 23 inches; light brownish gray (2.5Y 6/2) silt loam; moderate very coarse prismatic structure parting to strong fine and medium angular blocky; very firm; brittle; few fine roots between peds; 55 percent distinct clay films; 1 percent iron-manganese masses, 10 percent iron-manganese concretions, 25 percent medium faint pale brown (10YR 6/3) iron depletions between peds, and 25 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron between peds; very strongly acid, pH 4.5; clear wavy boundary.
- Btx2—23 to 43 inches; strong brown (7.5YR 5/6) silt loam; moderate very coarse prismatic structure parting to strong fine and medium angular blocky; very firm; brittle; few fine roots between peds; 55 percent distinct clay films; 1 percent iron-manganese masses and 10 percent iron-manganese concretions, 25 percent medium distinct red (2.5YR 4/8) masses of oxidized iron between peds, and 25 percent medium prominent gray (10YR 5/1) iron depletions between peds; very strongly acid, pH 4.5; prisms at a depth of 40 inches are 5½ inches in size; clear wavy boundary.
- Btx3—43 to 55 inches; strong brown (7.5YR 5/6) silt loam; moderate very coarse prismatic structure parting to moderate fine and medium subangular blocky; very firm; brittle; 55 percent distinct clay films; 25 percent medium prominent gray (10YR 5/1) iron depletions between peds and 25 percent medium distinct red (2.5YR 4/8) masses of oxidized iron between peds; very strongly acid, pH 4.5; clear wavy boundary.
- Btx4—55 to 74 inches; brown (7.5YR 4/4) silt loam; moderate very coarse prismatic structure parting to moderate fine and medium subangular blocky; very firm; brittle; 55 percent distinct clay films; 1 percent iron-manganese concretions, 5 percent iron-manganese masses, 25 percent medium prominent gray (10YR 6/1) iron depletions between peds, and 25 percent medium distinct red (2.5YR 4/6) masses of oxidized iron between peds; very strongly acid, pH 5.0; clear wavy boundary.
- BC—74 to 84 inches; brown (7.5YR 4/4) silt loam; massive; firm; 1 percent medium faint yellowish red (5YR 4/6) masses of oxidized iron throughout, 1 percent iron-manganese masses, and 10 percent medium prominent gray (10YR 6/1) iron depletions throughout; very strongly acid, pH 5.0; clear wavy boundary.
- C—84 to 90 inches; brown (7.5YR 4/4) sandy loam; massive; friable; 1 percent medium faint yellowish red (5YR 4/6) masses of oxidized iron throughout, 1 percent iron-manganese masses, and 10 percent medium prominent gray (10YR 6/1) iron depletions throughout; very strongly acid, pH 5.0.

### Range in Characteristics

*Depth to restrictive feature:* 15 to 36 inches to a fragipan

*Diagnostic feature(s):* Fragipan, ochric epipedon, aquic conditions, and argillic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

## Soil Survey of Jefferson County, Kentucky

*Depth to top of water table:* 0 to 10 inches

*Surface fragments:* None

*Ap horizon:*

Hue—10YR or 2.5Y

Value—3 or 4 moist

Chroma—1 or 2 moist

Texture—silt loam

Rock fragments—0 to 2 percent rounded indurated mixed fine gravel and 0 to 3 percent rounded indurated mixed medium and coarse gravel

Reaction (pH)—3.6 to 5.5

Organic matter content—1.0 to 3.0 percent

*Bg horizon:*

Hue—10YR to 5Y

Value—5 to 7 moist

Chroma—1 or 2 moist

Texture—silt loam or silty clay loam

Rock fragments—0 to 2 percent rounded indurated mixed fine gravel and 0 to 3 percent rounded indurated mixed medium and coarse gravel

Reaction (pH)—3.6 to 5.5

Organic matter content—0.0 to 0.5 percent

*Btx horizon:*

Hue—10YR to 5Y

Value—5 to 7 moist

Chroma—1 or 2 moist

Texture—silt loam or silty clay loam

Rock fragments—0 to 2 percent rounded indurated mixed fine gravel and 0 to 3 percent rounded indurated mixed medium and coarse gravel

Reaction (pH)—3.6 to 5.5

Organic matter content—0.0 to 0.5 percent

*BC and C horizons:*

Hue—10YR to 5Y

Value—5 to 7 moist

Chroma—1 or 2 moist

Texture—silty clay loam, silty clay, silt loam, or sandy loam

Rock fragments—0 to 7 percent rounded indurated mixed fine gravel and 0 to 7 percent rounded indurated mixed medium and coarse gravel

Reaction (pH)—4.5 to 7.3

Organic matter content—0.0 to 0.5 percent

### ***Sandview Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* SaB—Sandview silt loam, 2 to 6 percent slopes; SaC—Sandview silt loam, 6 to 12 percent slopes; UuC—Urban land-Alfic Udarents-Sandview complex, 0 to 12 percent slopes

*Depth class:* Very deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately high

*Landform(s):* Ridge on upland

*Landform position(s) (two-dimensional):* Summit and shoulder

*Landform position(s) (three-dimensional):* Interfluvium and side slope

## Soil Survey of Jefferson County, Kentucky

*Parent material:* Thin, fine-silty loess over clayey residuum weathered from limestone and shale of the Ordovician System

*Elevation:* 500 to 800 feet

*Slope:* 0 to 12 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Typic Hapludalfs

### Typical Pedon

Sandview silt loam, 2 to 6 percent slopes; in a harvested tobacco field (that is now part of the Jefferson County Metro Parks Property) about 1.75 miles east of the intersection of the Interstate 265 and State Highway 155, about 1.25 miles southeast of the intersection of State Highway 155 and State Highway 148, about 0.75 mile southwest to the intersection of State Highway 155 and State Highway 1531, about 0.75 mile southwest to the intersection of State Highway 1531 and Thurman Road, about 0.5 mile northwest of the intersection of Thurman Road and Deer Run Road, about 0.25 mile northwest of the intersection of Deer Run Road and Deer Run Place through the park entrance, about 100 feet northeast of Deer Run Place past an old dairy barn and into a harvested tobacco field; USGS Fisherville, Kentucky topographic quadrangle; lat. 38 degrees 10 minutes 19.00 seconds N. and long. 85 degrees 29 minutes 12.00 seconds W.; UTM Zone 16, 632549 meters easting, 4225972 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 10 inches; brown (10YR 4/3) silt loam; moderate fine and medium granular structure; friable; few fine roots throughout; neutral, pH 7.0; clear smooth boundary.

Bt1—10 to 23 inches; strong brown (7.5YR 4/6) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 35 percent distinct clay films; 1 percent iron-manganese concretions; slightly acid, pH 6.5; clear smooth boundary.

Bt2—23 to 33 inches; strong brown (7.5YR 4/6) silt loam; moderate medium subangular blocky structure; friable; few fine roots throughout; 35 percent distinct clay films; 10 percent iron-manganese concretions; strongly acid, pH 5.5; clear smooth boundary.

Bt3—33 to 41 inches; brown (7.5YR 4/4) silty clay loam; weak fine and medium subangular blocky structure; firm; 35 percent distinct clay films; 25 percent iron-manganese concretions; 2 percent flat angular indurated limestone fragments that are 2 to 150 millimeters in size; strongly acid, pH 5.5; abrupt smooth boundary.

2Bt4—41 to 51 inches; yellowish brown (10YR 5/6) silty clay; weak fine and medium subangular blocky structure; firm; 35 percent distinct clay films; 2 percent medium faint light yellowish brown (2.5Y 6/4) masses of oxidized iron throughout and 25 percent iron-manganese concretions; moderately acid, pH 6.0; clear smooth boundary.

2C—51 to 82 inches; yellowish brown (10YR 5/6) silty clay; massive; firm.

### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon, lithologic discontinuity, and argillic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

*Ap horizon:*

Hue—7.5YR or 10YR

Value—3 to 5 moist

Chroma—2 to 4 moist

Texture—silt loam  
Rock fragments—none  
Reaction (pH)—4.5 to 6.0  
Organic matter content—1.0 to 4.0 percent

*Bt horizon:*

Hue—5YR to 10YR  
Value—4 to 6 moist  
Chroma—4 to 8 moist  
Texture—silty clay loam or silt loam  
Rock fragments—0 to 10 percent angular indurated limestone channers  
Reaction (pH)—4.5 to 7.3  
Organic matter content—0.0 to 0.5 percent

*2Bt and 2C horizons:*

Hue—7.5YR to 2.5Y  
Value—3 to 6 moist  
Chroma—2 to 8 moist  
Texture—silty clay or clay  
Rock fragments—0 to 8 percent angular indurated limestone channers and 0 to 2 percent angular indurated limestone flagstones  
Reaction (pH)—5.1 to 7.8  
Organic matter content—0.0 to 0.5 percent

## ***Sciotoville Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* ScA—Sciotoville silt loam, 0 to 2 percent slopes; ScB—Sciotoville silt loam, 2 to 6 percent slopes; ScC—Sciotoville silt loam, 6 to 12 percent slopes; SdA—Sciotoville silt loam, 0 to 2 percent slopes, occasionally flooded; SdB—Sciotoville silt loam, 2 to 6 percent slopes, occasionally flooded; UvC—Urban land-Alfics-Udarents-Sciotoville complex, 0 to 12 percent slopes

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Saturated hydraulic conductivity (Ksat):* Very low

*Landform(s):* Stream terrace in river valley

*Landform position(s) (three-dimensional):* Tread

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

*Slope:* 0 to 12 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Aquic Fragiudalfs

### **Typical Pedon**

Sciotoville silt loam, 0 to 2 percent slopes, occasionally flooded; in a pasture about 1 mile northeast of the intersection of State Highway 1934 and Johnstown Road, about 300 feet southeast of Johnstown Road through a woodlot into a pasture; USGS Kosmosdale, Indiana topographic quadrangle; lat. 38 degrees 7 minutes 12.00 seconds N. and long. 85 degrees 52 minutes 50.00 seconds W.; UTM Zone 16, 598118 meters easting, 4219733 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 10 inches; brown (10YR 4/3) silt loam, pale brown (10YR 6/3) dry; moderate fine and medium granular structure; friable; common fine roots throughout; 25 percent mica flakes; neutral, pH 7.0; clear wavy boundary.

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- Bt—10 to 17 inches; strong brown (7.5YR 4/6) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 30 percent distinct clay films; 25 percent medium prominent light brownish gray (2.5Y 6/2) iron depletions throughout; 25 percent mica flakes; slightly acid, pH 6.5; clear wavy boundary.
- Btx1—17 to 35 inches; strong brown (7.5YR 5/6) silt loam; moderate very coarse prismatic structure parting to moderate fine and medium subangular blocky structure; very firm; brittle; few fine roots in cracks; 30 percent distinct clay films; 25 percent medium prominent light brownish gray (10YR 6/2) iron depletions throughout; 25 percent mica flakes; very strongly acid, pH 5.0; clear wavy boundary.
- Btx2—35 to 46 inches; brown (7.5YR 4/4) silt loam; weak very coarse prismatic structure parting to weak fine and medium subangular blocky; very firm; brittle; 10 percent distinct clay films; 25 percent medium prominent gray (10YR 6/1) iron depletions throughout; 25 percent mica flakes; very strongly acid, pH 4.5; clear wavy boundary.
- Btx3—46 to 55 inches; brown (7.5YR 4/4) silt loam; weak very coarse prismatic structure parting to weak fine and medium subangular blocky; very firm; brittle; 10 percent distinct clay films; 10 percent medium prominent light brownish gray (2.5Y 6/2) iron depletions throughout; 25 percent mica flakes; very strongly acid, pH 4.5; clear wavy boundary.
- Btx4—55 to 77 inches; dark yellowish brown (10YR 4/4) silt loam; weak very coarse prismatic structure parting to weak fine subangular blocky; firm; brittle; 10 percent distinct clay films; 1 percent iron-manganese masses, 10 percent medium distinct gray (10YR 6/1) iron depletions throughout, and 10 percent medium faint strong brown (7.5YR 4/6) masses of oxidized iron throughout; 25 percent mica flakes; very strongly acid, pH 5.0; clear wavy boundary.
- BC—77 to 100 inches; dark yellowish brown (10YR 4/4) loam; weak fine and medium subangular blocky structure; friable; 1 percent fine distinct gray (10YR 6/1) iron depletions throughout and 1 percent fine faint strong brown (7.5YR 4/6) masses of oxidized iron throughout; 25 percent mica flakes; slightly acid, pH 6.5.

### Range in Characteristics

*Depth to restrictive feature:* 16 to 38 inches to a fragipan

*Diagnostic feature(s):* Fragipan, ochric epipedon, aquic conditions, and argillic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 12 to 20 inches

*Surface fragments:* None

#### *Ap horizon:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—2 or 3 moist

Texture—silt loam

Rock fragments—0 to 1 percent subrounded indurated mixed fine gravel and 0 to 1 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—4.5 to 7.3

Organic matter content—1.0 to 3.0 percent

#### *Bt horizon:*

Hue—5YR to 10YR

Value—4 or 5 moist

Chroma—3 to 6 moist

## Soil Survey of Jefferson County, Kentucky

Texture—silt loam or silty clay loam  
Rock fragments—0 to 2 percent subrounded indurated mixed fine gravel and 0 to 3 percent subrounded indurated mixed medium and coarse gravel  
Reaction (pH)—4.5 to 5.5  
Organic matter content—0.0 to 0.5 percent

### *Btx horizon:*

Hue—5YR to 10YR  
Value—4 to 6 moist  
Chroma—3 to 6 moist  
Texture—silty clay loam, silt loam, or loam  
Rock fragments—0 to 1 percent subrounded indurated mixed fine gravel, 0 to 3 percent subrounded indurated mixed medium and coarse gravel, and 0 to 1 percent subrounded indurated mixed cobbles  
Reaction (pH)—4.5 to 5.5  
Organic matter content—0.0 to 0.2 percent

### *BC horizon:*

Hue—7.5YR to 10YR  
Value—4 or 5 moist  
Chroma—3 to 6 moist  
Texture—sandy loam, silt loam, loam, or silty clay loam  
Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel, 0 to 7 percent subrounded indurated mixed medium and coarse gravel, and 0 to 2 percent subrounded indurated mixed cobbles  
Reaction (pH)—5.1 to 6.5  
Organic matter content—0.0 to 0.5 percent

## **Shrouts Series**

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* FsF—Faywood-Shrouts-Beasley complex, 25 to 50 percent slopes; ShC3—Shrouts silt loam, 6 to 12 percent slopes, severely eroded; ShD3—Shrouts silt loam, 12 to 25 percent slopes, severely eroded, very rocky; UwC—Urban land-Alfic Udarents-Shrouts complex, 0 to 12 percent slopes; Uwd—Urban land-Alfic Udarents-Shrouts complex, 12 to 25 percent slopes

*Depth class:* Moderately deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Landform(s):* Hill on upland and ridge on upland

*Landform position(s) (two-dimensional):* Shoulder and backslope

*Landform position(s) (three-dimensional):* Side slope

*Parent material:* Clayey residuum weathered from soft, calcareous shale, siltstone, and limestone of the Waldron, Laurel, Osgood, and Brassfield Formations of the Silurian System and the Saluda and Bardstown Members of the Ordovician System

*Elevation:* 500 to 800 feet

*Slope:* 0 to 50 percent

*Taxonomic classification:* Fine, mixed, active, mesic Typic Hapludalfs

### **Typical Pedon**

Shrouts silt loam, 6 to 12 percent slopes, severely eroded; in a pasture about 2.25 miles southeast of the intersection of State Highway 1819 and Brush Run Road (through Seatonville), about 1.1 miles south of the intersection of Brush Run Road and



## Soil Survey of Jefferson County, Kentucky

Broad Run Road, about 0.75 mile southeast of the intersection of Broad Run Road and Back Run Road (across Floyds Fork), about 2.1 miles northwest of the intersection of Back Run Road and Stout Road to a farm entrance, and about 1,800 feet southwest on the farm road to a ridgetop; USGS Mount Washington, Kentucky topographic quadrangle; lat. 38 degrees 7 minutes 27.00 seconds N. and long. 85 degrees 31 minutes 49.00 seconds W.; UTM Zone 16, 628819 meters easting, 4220621 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 2 inches; dark brown (10YR 3/3) silt loam; firm; few coarse roots throughout; slightly acid, pH 6.5; abrupt wavy boundary.

Bt1—2 to 10 inches; yellowish brown (10YR 5/6) silty clay; very firm; few fine roots throughout; 55 percent distinct clay films; 10 percent medium faint brown (7.5YR 4/4) and 10 percent medium faint light yellowish brown (10YR 6/4) masses of oxidized iron throughout; slightly acid, 6.5; clear wavy boundary.

Bt2—10 to 20 inches; dark yellowish brown (10YR 4/6) silty clay; very firm; 55 percent distinct clay films; slightly acid, 6.5; abrupt wavy boundary.

C1—20 to 29 inches; dark yellowish brown (10YR 4/6) silty clay; very firm; 5 percent carbonate masses; 5 percent flat subangular strongly cemented calcareous shale fragments that are  $\frac{1}{10}$  inch to 6 inches in size; slightly alkaline, pH 7.5; abrupt wavy boundary.

C2—29 to 35 inches; dark yellowish brown (10YR 4/6) silty clay; very firm; 10 percent carbonate masses; 10 percent flat subangular moderately cemented calcareous shale fragments that are  $\frac{1}{10}$  inch to 6 inches in size; moderately alkaline, 8.0; abrupt wavy boundary.

Cr—35 to 45 inches; moderately cemented calcareous shale bedrock.

### Range in Characteristics

*Depth to restrictive feature:* 20 to 40 inches to paralithic bedrock

*Diagnostic feature(s):* Ochric epipedon, paralithic contact, and argillic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *Ap horizon:*

Hue—10YR to 5Y

Value—3 to 6 moist

Chroma—1 to 6 moist

Texture—silt loam

Rock fragments—0 to 7 percent subangular moderately cemented calcareous shale channers

Reaction (pH)—5.1 to 8.4

Organic matter content—0.5 to 3.0 percent

#### *Bt horizon:*

Hue—10YR to 5GY

Value—5 or 6 moist

Chroma—1 to 6 moist

Texture—silty clay or clay

Rock fragments—0 to 8 percent subangular moderately cemented calcareous shale channers and 0 to 2 percent subangular moderately cemented calcareous shale flagstones

Reaction (pH)—5.1 to 8.4

Organic matter content—0.0 to 0.5 percent

#### *C horizon:*

Hue—2.5Y to 5BG



Value—4 to 6 moist  
Chroma—1 to 6 moist  
Texture—clay, silty clay, or channery silty clay  
Rock fragments—0 to 13 percent subangular moderately cemented calcareous shale channers and 1 to 7 percent subangular moderately cemented calcareous shale flagstones  
Reaction (pH)—6.6 to 8.4  
Organic matter content—0.0 to 0.5 percent

*Cr horizon:*

Bedrock—weathered, moderately cemented calcareous shale

## ***Tilsit Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Knobs

*Map unit(s):* TjB—Tilsit silt loam, 2 to 6 percent slopes; TjC—Tilsit silt loam, 6 to 12 percent slopes; TjD—Tilsit silt loam, 12 to 25 percent slopes; UamC—Urban land-Ultic Udarents-Tilsit complex, 0 to 12 percent slopes

*Depth class:* Very deep

*Drainage class:* Moderately well drained

*Saturated hydraulic conductivity (Ksat):* Very low

*Landform(s):* Knob on upland

*Landform position(s) (two-dimensional):* Summit, shoulder, and backslope

*Landform position(s) (three-dimensional):* Interfluve and side slope

*Parent material:* Fine-silty residuum weathered from siltstone and shale of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

*Slope:* 0 to 25 percent

*Taxonomic classification:* Fine-silty, mixed, semiactive, mesic Typic Fragiudults

### **Typical Pedon**

Tilsit silt loam, 12 to 25 percent slopes; on a woodland footslope about 1,800 feet south of the intersection of Interstate 265 and State Highway 1020, about 1.75 miles southwest of the intersection of State Highway 1020 and Fairdale Road, about 2.5 miles southwest of the intersection of Fairdale Road and Mitchell Hill Road, about 0.5 mile southeast of the intersection of Mitchell Hill Road and Holsclaw Hill Road to the entrance of the Jefferson County Memorial Forest, about 1,800 feet to a parking lot and picnic shelter, and about 300 feet northeast from the northeast end of the parking lot to a woodland footslope; USGS Valley Station, Kentucky topographic quadrangle; lat. 38 degrees 5 minutes 6.00 seconds N. and long. 85 degrees 47 minutes 26.00 seconds W.; UTM Zone 16, 606058 meters easting, 4215947 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 5 inches; dark grayish brown (10YR 4/2) silt loam; moderate fine and medium granular structure; very friable; many fine to coarse roots throughout; very strongly acid, pH 5.0; abrupt wavy boundary. (4 to 8 inches thick)

BE—5 to 11 inches; yellowish brown (10YR 5/4) silt loam; moderate fine and medium subangular blocky structure; very friable; common fine to coarse roots throughout; very strongly acid, pH 4.5; clear wavy boundary. (0 to 7 inches thick)

Bt1—11 to 26 inches; 60 percent strong brown (7.5YR 4/6) and 40 percent yellowish brown (10YR 5/4) silt loam; moderate medium subangular blocky structure; friable; few fine to coarse roots throughout; 30 percent distinct clay films; very strongly acid, pH 4.5; clear wavy boundary.

Bt2—26 to 32 inches; 65 percent strong brown (7.5YR 4/6) and 35 percent yellowish

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brown (10YR 5/4) silt loam; moderate medium subangular blocky structure; friable; few fine to coarse roots throughout; 55 percent distinct clay films; 10 percent medium prominent light brownish gray (10YR 6/2) iron depletions; very strongly acid, pH 4.5; clear wavy boundary. (combined thickness of the Bt horizons ranges from 10 to 24 inches)

Btx1—32 to 40 inches; strong brown (7.5YR 4/6) silt loam; moderate very coarse prismatic structure parting to moderate fine and medium subangular blocky; very firm; brittle; few fine roots between peds; 55 percent distinct clay films; 25 percent medium prominent gray (10YR 6/1) iron depletions and 25 percent medium prominent light brownish gray (10YR 6/2) iron depletions; uncoated sand grains on faces of prisms; very strongly acid, pH 4.5; clear wavy boundary.

Btx2—40 to 53 inches; strong brown (7.5YR 4/6) silt loam; moderate very coarse prismatic structure parting to moderate fine and medium subangular blocky; very firm; brittle; few fine roots between peds; 30 percent distinct clay films; 25 percent medium prominent light brownish gray (2.5Y 6/2) iron depletions and 25 percent medium prominent gray (10YR 6/1) iron depletions; 5 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; uncoated sand grains on faces of prisms; very strongly acid, pH 4.5; clear wavy boundary.

Btx3—53 to 60 inches; strong brown (7.5YR 5/6) silt loam; weak very coarse prismatic structure parting to weak fine and medium subangular blocky; very firm; brittle; 10 percent distinct clay films; 25 percent medium prominent gray (10YR 6/1) iron depletions; 5 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; uncoated sand grains on faces of prisms; very strongly acid, pH 4.5; clear wavy boundary. (combined thickness of the Btx horizons ranges from 12 to 30 inches)

Cg—60 to 76 inches; light brownish gray (2.5Y 6/2) silt loam; massive; friable; 25 percent medium prominent strong brown (7.5YR 5/6) and 25 percent medium distinct yellowish brown (10YR 5/4) masses of oxidized iron throughout; strongly acid, pH 5.5; clear wavy boundary. (0 to 20 inches thick)

C—76 to 85 inches; yellowish brown (10YR 5/4) silt loam; massive; firm; 5 percent prominent black (10YR 2/1) iron-manganese masses throughout, 25 percent medium faint strong brown (7.5YR 5/6) masses of oxidized iron throughout, and 25 percent medium faint light olive brown (2.5Y 5/3) iron depletions throughout; 5 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; common iron-manganese stains; strongly acid, pH 5.5. (6 to 20 inches thick)

### Range in Characteristics

*Depth to restrictive feature:* 18 to 32 inches to a fragipan

*Diagnostic feature(s):* Fragipan, ochric epipedon, aquic conditions, and argillic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 18 to 30 inches

*Surface fragments:* None

#### *A horizon:*

Hue—10YR or 2.5Y

Value—4 or 5 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—0 to 5 percent subangular strongly cemented siltstone channers

Reaction (pH)—3.5 to 5.5

Organic matter content—1.0 to 3.0 percent

*BE and Bt horizons:*

Hue—7.5YR to 2.5Y  
Value—4 to 6 moist  
Chroma—4 to 8 moist  
Texture—loam, silty clay loam, or silt loam  
Rock fragments—0 to 5 percent subangular strongly cemented siltstone channers  
Reaction (pH)—3.5 to 5.5  
Organic matter content—0.0 to 0.5 percent

*Btx horizon:*

Hue—7.5YR to 2.5Y  
Value—4 to 6 moist  
Chroma—2 to 8 moist  
Texture—silty clay loam, silt loam, or loam  
Rock fragments—0 to 14 percent subangular strongly cemented siltstone channers  
Reaction (pH)—3.5 to 5.5  
Organic matter content—0.0 to 0.5 percent

*Cg and C horizons:*

Hue—7.5YR to 2.5Y  
Value—4 to 6 moist  
Chroma—2 to 8 moist  
Texture—channery silty clay loam, silt loam, channery silty clay, or channery silt loam  
Rock fragments—3 to 20 percent subangular strongly cemented siltstone channers and 4 to 10 percent subangular strongly cemented siltstone flagstones  
Reaction (pH)—3.6 to 5.5  
Organic matter content—0.0 to 0.5 percent

***Ultic Udarents***

Refer to the detailed soil map unit description.

**Weikert Series**

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Knobs

*Map unit(s):* GwF—Gilpin-Weikert complex, 25 to 60 percent slopes

*Depth class:* Shallow

*Drainage class:* Somewhat excessively drained

*Saturated hydraulic conductivity (Ksat):* High

*Landform(s):* Knob on upland

*Landform position(s) (two-dimensional):* Backslope

*Landform position(s) (three-dimensional):* Side slope

*Parent material:* Loamy-skeletal residuum weathered from siltstone and shale of the Kenwood and New Providence Members of the Borden Formation of the Mississippian System

*Elevation:* 500 to 900 feet

*Slope:* 25 to 60 percent

*Taxonomic classification:* Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts

**Typical Pedon**

Weikert silt loam in an area of Gilpin-Weikert complex, 25 to 60 percent slopes; on a

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woodland ridgetop about 1,800 feet south of the intersection of Interstate 265 and State Highway 1020, about 1.75 miles southwest of the intersection of State Highway 1020 and Fairdale Road, about 2.5 miles southwest of the intersection of Fairdale Road and Mitchell Hill Road, about 0.5 mile southeast of the intersection of Mitchell Hill Road and Holsclaw Hill Road to the entrance of the Jefferson County Memorial Forest, about 1,800 feet to a parking lot and picnic shelter, and about 2,000 feet northeast from the northeast end of the parking lot (along a hiking trail) to a woodland nose slope; USGS Valley Station, Kentucky topographic quadrangle; lat. 38 degrees 5 minutes 21.00 seconds N. and long. 85 degrees 45 minutes 6.00 seconds W.; UTM Zone 16, 609469 meters easting, 4216440 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- A—0 to 4 inches; very dark grayish brown (10YR 3/2) silt loam, pale brown (10YR 6/3) dry; weak fine and medium granular structure; very friable; many fine to coarse roots throughout; 10 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 4.5; abrupt wavy boundary. (4 to 6 inches thick)
- Bw1—4 to 10 inches; light yellowish brown (10YR 6/4) very channery silt loam; moderate fine and medium subangular blocky structure; friable; many fine to coarse roots throughout; 40 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 5.0; clear wavy boundary.
- Bw2—10 to 18 inches; light yellowish brown (10YR 6/4) extremely channery silt loam; weak fine and medium subangular blocky structure; friable; common fine to coarse roots throughout; 60 percent flat subangular strongly cemented siltstone fragments that are  $\frac{1}{10}$  inch to 6 inches in size; very strongly acid, pH 5.0; clear wavy boundary. (combined thickness of the Bw horizons ranges from 6 to 15 inches)
- Cr—18 to 28 inches; strongly cemented siltstone bedrock.

### Range in Characteristics

*Depth to restrictive feature:* 10 to 20 inches to paralithic bedrock

*Diagnostic feature(s):* Ochric epipedon, cambic horizon, and paralithic contact

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *A horizon:*

Hue—7.5YR or 10YR

Value—3 to 5 moist

Chroma—2 to 4 moist

Texture—channery silt loam or silt loam

Rock fragments—5 to 25 percent subangular strongly cemented siltstone channers and 2 to 5 percent subangular strongly cemented siltstone flagstones

Reaction (pH)—4.5 to 6.0

Organic matter content—1.0 to 3.0 percent

#### *Bw horizon:*

Hue—7.5YR or 10YR

Value—4 to 6 moist

Chroma—3 to 6 moist

Texture—very channery loam or very channery silt loam

Rock fragments—20 to 40 percent subangular strongly cemented siltstone channers and 10 to 20 percent subangular strongly cemented siltstone flagstones

Reaction (pH)—4.5 to 6.0  
Organic matter content—0.0 to 0.5 percent

*Cr horizon:*

Bedrock—weathered, strongly cemented siltstone

## **Weinbach Series**

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* UxC—Urban land-Alfic Udarents-Weinbach complex, 0 to 12 percent slopes; WeA—Weinbach silt loam, 0 to 2 percent slopes; WeB—Weinbach silt loam, 2 to 6 percent slopes; WfA—Weinbach silt loam, 0 to 2 percent slopes, occasionally flooded; WfB—Weinbach silt loam, 2 to 6 percent slopes, occasionally flooded

*Depth class:* Very deep

*Drainage class:* Somewhat poorly drained

*Saturated hydraulic conductivity (Ksat):* Very low

*Landform(s):* Stream terrace in river valley

*Landform position(s) (three-dimensional):* Tread

*Parent material:* Mixed, fine-silty alluvium over mixed, loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

*Slope:* 0 to 12 percent

*Taxonomic classification:* Fine-silty, mixed, active, mesic Aeric Fragiaqualfs

### **Typical Pedon**

Weinbach silt loam, 0 to 2 percent slopes, occasionally flooded; in a hayfield about 900 feet south of the intersection of State Highway 1934 and State Highway 1230 to the entrance of the Farnsley-Moremen Riverside Landing Park, about 900 feet northwest of the intersection of State Highway 1230 and Moorman Road, about 600 feet northwest of Moorman Road into a hayfield, and about 700 feet east of the Ohio River; USGS Kosmosdale, Indiana topographic quadrangle; lat. 38 degrees 5 minutes 57.00 seconds N. and long. 85 degrees 53 minutes 45.00 seconds W.; UTM Zone 16, 596820 meters easting, 4217406 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

Ap—0 to 5 inches; brown (10YR 5/3) silt loam; weak fine and medium granular structure; friable; common fine roots throughout; 25 percent medium faint light brownish gray (10YR 6/2) iron depletions throughout and 25 percent medium distinct strong brown (7.5YR 5/6) masses of oxidized iron throughout; 20 percent light brownish gray (10YR 6/2) mica flakes; strongly acid, pH 5.5; abrupt wavy boundary. (5 to 10 inches thick)

AB—5 to 12 inches; light olive brown (2.5Y 5/4) silt loam; moderate fine and medium granular structure; friable; common fine roots throughout; 25 percent medium distinct light brownish gray (10YR 6/2) iron depletions throughout and 25 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout; 20 percent mica flakes; very strongly acid, pH 5.0; abrupt wavy boundary. (0 to 10 inches thick)

Btg1—12 to 15 inches; light brownish gray (10YR 6/2) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 10 percent distinct clay films on faces of peds; 1 percent medium prominent strong brown (7.5YR 5/8) masses of oxidized iron throughout and 1 percent medium faint light olive brown (2.5Y 5/3) iron depletions throughout; 20 percent mica flakes; very strongly acid, pH 5.0; abrupt wavy boundary.

- Btg2—15 to 20 inches; light brownish gray (10YR 6/2) silt loam; moderate fine and medium subangular blocky structure; friable; few fine roots throughout; 30 percent distinct clay films on faces of peds; 1 percent fine faint light olive brown (2.5Y 5/3) iron depletions throughout, 1 percent fine faint gray (10YR 6/1) iron depletions throughout, 25 percent medium prominent strong brown (7.5YR 5/8) masses of oxidized iron throughout, and 25 percent medium prominent yellowish red (5YR 5/8) masses of oxidized iron throughout; 20 percent mica flakes; very strongly acid, pH 5.0; clear smooth boundary. (combined thickness of the Btg horizons ranges from 5 to 15 inches)
- Btxg1—20 to 31 inches; light brownish gray (10YR 6/2) silt loam; weak very coarse prismatic structure parting to moderate fine and medium subangular blocky; very firm; brittle; few fine roots in cracks; 55 percent distinct clay films on faces of peds; 1 percent fine prominent yellowish red (5YR 5/6) and 25 percent medium prominent strong brown (7.5YR 5/8) masses of oxidized iron throughout; 20 percent mica flakes; very strongly acid, pH 5.0; clear smooth boundary.
- Btxg2—31 to 41 inches; light brownish gray (10YR 6/2) and light olive brown (2.5Y 5/3) silt loam; strong very coarse prismatic structure parting to moderate fine and medium subangular blocky; very firm; brittle; few fine roots in cracks; 55 percent distinct clay films on faces of peds; 1 percent fine prominent yellowish red (5YR 5/6) and 25 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout; 20 percent mica flakes; very strongly acid, pH 4.5; clear smooth boundary. (combined thickness of the Btxg horizons ranges from 12 to 30 inches)
- B'tg—41 to 52 inches; gray (10YR 6/1) silty clay loam; weak medium and coarse subangular blocky structure; firm; 10 percent distinct clay films on faces of peds; 25 percent medium prominent yellowish red (5YR 5/8) masses of oxidized iron throughout and 25 percent medium faint light brownish gray (10YR 6/2) iron depletions throughout; 20 percent mica flakes; very strongly acid, pH 4.5; abrupt smooth boundary. (0 to 15 inches thick)
- Cg—52 to 70 inches; gray (7.5YR 6/1) stratified silty clay loam; massive; firm; 25 percent coarse prominent yellowish red (5YR 5/8) masses of oxidized iron throughout and 25 percent fine distinct grayish brown (2.5Y 5/2) iron depletions throughout; 20 percent mica flakes; very strongly acid, pH 4.5; clear wavy boundary.
- C—70 to 82 inches; brown (7.5YR 4/4) stratified loam; massive; friable; 1 percent fine distinct dark red (2.5YR 3/6) masses of oxidized iron throughout and 10 percent medium prominent gray (2.5Y 5/1) iron depletions throughout; 20 percent mica flakes; very strongly acid, pH 5.0. (combined thickness of the Cg and C horizons ranges from 20 to 40 inches)

#### Range in Characteristics

*Depth to restrictive feature:* 20 to 36 inches to a fragipan

*Diagnostic feature(s):* Fragipan, ochric epipedon, aquic conditions, and argillic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 12 to 20 inches

*Surface fragments:* None

*Ap and AB horizons:*

Hue—10YR

Value—4 to 6 moist

Chroma—2 to 4 moist

Texture—silt loam

Rock fragments—none



Reaction (pH)—4.5 to 7.3  
Organic matter content—1.0 to 3.0 percent

*Btg horizon:*

Hue—10YR  
Value—5 or 6 moist  
Chroma—2 to 4 moist  
Texture—silty clay loam or silt loam  
Rock fragments—none  
Reaction (pH)—4.5 to 5.5  
Organic matter content—0.5 to 2.0 percent

*Btgx horizon:*

Hue—7.5YR to 2.5Y  
Value—4 to 6 moist  
Chroma—2 to 6 moist  
Texture—clay loam, silty clay loam, or silt loam  
Rock fragments—none  
Reaction (pH)—4.5 to 5.5  
Organic matter content—0.0 to 0.5 percent

*B'tg horizon:*

Hue—7.5YR or 10YR  
Value—4 or 5 moist  
Chroma—1 to 6 moist  
Texture—loam, silt loam, silty clay loam, or clay loam  
Rock fragments—none  
Reaction (pH)—4.5 to 5.5  
Organic matter content—0.0 to 0.5 percent

*Cg and C horizons:*

Hue—7.5YR to 10YR  
Value—4 to 6 moist  
Chroma—1 to 6 moist  
Texture—stratified loam to silty clay loam, stratified sandy loam to silt loam, or stratified silt loam to clay loam  
Rock fragments—none  
Reaction (pH)—4.5 to 6.0  
Organic matter content—0.0 to 0.2 percent

## ***Wheeling Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* CnF—Chagrin-Nelse-Wheeling complex, 2 to 75 percent slopes, frequently flooded; UyC—Urban land-Alfic Udarents-Wheeling complex, 0 to 12 percent slopes; UyD—Urban land-Alfic Udarents-Wheeling complex, 12 to 25 percent slopes; UzC—Urban land-Alfic Udarents-Wheeling complex, 0 to 12 percent slopes, rarely flooded; WhA—Wheeling loam, 0 to 2 percent slopes; WhB—Wheeling loam, 2 to 6 percent slopes; WhC—Wheeling loam, 6 to 12 percent slopes; WhD—Wheeling loam, 12 to 25 percent slopes; WhF—Wheeling loam, 25 to 55 percent slopes; WkA—Wheeling loam, 0 to 2 percent slopes, occasionally flooded; WkB—Wheeling loam, 2 to 6 percent slopes, occasionally flooded; WkC—Wheeling loam, 6 to 12 percent slopes, occasionally flooded; WkD—Wheeling loam, 12 to 25 percent slopes, occasionally flooded; WkF—Wheeling loam, 25 to 55 percent slopes, occasionally flooded



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*Depth class:* Very deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* High

*Landform(s):* Stream terrace in river valley

*Landform position(s) (three-dimensional):* Riser and tread

*Parent material:* Mixed, fine-loamy alluvium of the Quaternary System

*Elevation:* 380 to 600 feet

*Slope:* 0 to 75 percent

*Taxonomic classification:* Fine-loamy, mixed, active, mesic Ultic Hapludalfs

### Typical Pedon

Wheeling silt loam, 12 to 25 percent slopes; on a woodland side slope about 900 feet southeast of the intersection of State Highway 1934 and State Highway 1931 to a utility right-of-way adjacent to Mill Creek, about 0.5 mile northeast of the intersection of State Highway 1931 and the utility right-of-way, and about 100 feet northwest of Mill Creek to a northeast-facing side slope; USGS Lanesville, Indiana topographic quadrangle; lat. 38 degrees 9 minutes 5.00 seconds N. and long. 85 degrees 52 minutes 54.00 seconds W.; UTM Zone 16, 597976 meters easting, 4223212 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 6 inches; very dark grayish brown (10YR 3/2) loam; weak fine and medium granular structure; very friable; many fine and medium roots throughout; strongly acid, pH 5.3; abrupt wavy boundary. (6 to 12 inches thick)

BA—6 to 9 inches; brown (10YR 4/3) loam; moderate fine and medium subangular blocky structure; friable; common fine and medium roots throughout; very strongly acid, pH 4.7; abrupt wavy boundary. (0 to 8 inches thick)

Bt1—9 to 18 inches; strong brown (7.5YR 4/6) loam; moderate medium and coarse subangular blocky structure; friable; common fine to coarse roots throughout; 35 percent distinct clay films; very strongly acid, pH 4.7; clear smooth boundary.

Bt2—18 to 34 inches; brown (7.5YR 4/4) loam; moderate medium and coarse subangular blocky structure; firm; few fine and medium roots throughout; 55 percent distinct clay films; 10 percent iron-manganese concretions; 2 percent nonflat rounded indurated mixed rock fragments that are  $\frac{1}{10}$  inch to 3 inches in size; very strongly acid, pH 4.7; clear smooth boundary.

Bt3—34 to 49 inches; strong brown (7.5YR 4/6) loam; moderate medium and coarse subangular blocky structure; friable; few fine roots throughout; 55 percent distinct clay films; 10 percent iron-manganese concretions; very strongly acid, pH 4.7; clear smooth boundary. (combined thickness of the Bt horizons ranges from 18 to 40 inches)

BC—49 to 56 inches; brown (7.5YR 4/4) sandy loam; weak coarse subangular blocky structure; friable; few fine roots throughout; very strongly acid, pH 4.7; clear smooth boundary. (0 to 12 inches thick)

C1—56 to 72 inches; brown (7.5YR 4/4) stratified sandy loam; loose; few fine roots throughout; strongly acid, pH 5.3; clear smooth boundary.

C2—72 to 85 inches; 40 percent yellowish brown (10YR 5/6), 40 percent brown (10YR 5/3), and 20 percent brown (7.5YR 4/4) stratified sandy loam; loose; few fine roots throughout; strongly acid, pH 5.3. (combined thickness of the C horizons ranges from 20 to 40 inches)

### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon and argillic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*A horizon:*

Hue—7.5YR or 10YR

Value—3 to 5 moist

Chroma—2 to 4 moist

Texture—loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 5 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.1 to 6.0

Organic matter content—1.0 to 3.0 percent

*BA and Bt horizons:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—3 to 6 moist

Texture—loam, clay loam, or silt loam

Rock fragments—0 to 5 percent subrounded indurated mixed fine gravel and 0 to 7 percent subrounded indurated mixed medium and coarse gravel

Reaction (pH)—5.1 to 6.0

Organic matter content—0.0 to 0.5 percent

*BC and C horizons:*

Hue—7.5YR or 10YR

Value—4 or 5 moist

Chroma—3 to 6 moist

Texture—sandy loam, stratified fine sandy loam, or stratified sandy loam

Rock fragments—0 to 4 percent subrounded indurated mixed fine gravel, 0 to 5 percent subrounded indurated mixed medium and coarse gravel, and 0 to 5 percent subrounded indurated mixed cobbles

Reaction (pH)—5.1 to 6.0

Organic matter content—0.0 to 0.5 percent

## ***Woolper Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* WoA—Woolper silt loam, 0 to 2 percent slopes, rarely flooded;

WoB—Woolper silt loam, 2 to 6 percent slopes, rarely flooded; WoC—Woolper silt loam, 6 to 12 percent slopes, rarely flooded

*Depth class:* Very deep

*Drainage class:* Well drained

*Saturated hydraulic conductivity (Ksat):* Moderately low

*Landform(s):* Hill on upland

*Landform position(s) (two-dimensional):* Footslope and toeslope

*Landform position(s) (three-dimensional):* Base slope

*Parent material:* Clayey colluvium derived from limestone and shale of the Silurian or Ordovician Systems

*Elevation:* 450 to 700 feet

*Slope:* 0 to 12 percent

*Taxonomic classification:* Fine, mixed, active, mesic Typic Argiudolls

### **Typical Pedon**

Woolper silt loam, 2 to 6 percent slopes, rarely flooded; in a field of soybean stubble about 2.25 miles southeast of the intersection of State Highway 1819 and Brush Run Road (through Seatonville), about 1.1 miles south of the intersection of Brush Run Road and Broad Run Road, about 800 feet southwest of the intersection of Broad Run

## Soil Survey of Jefferson County, Kentucky

Road and Back Run Road, and about 1,000 feet northwest of Floyds Fork; USGS Mount Washington, Kentucky topographic quadrangle; lat. 38 degrees 6 minutes 44.00 seconds N. and long. 85 degrees 32 minutes 42.00 seconds W.; UTM Zone 16, 627544 meters easting, 4219248 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

- Ap—0 to 13 inches; very dark grayish brown (10YR 3/2) silt loam, brown (10YR 5/3) dry; moderate medium granular structure; firm; few fine roots throughout; clear wavy boundary. (6 to 14 inches thick)
- Bt1—13 to 24 inches; dark yellowish brown (10YR 4/4) silty clay loam; moderate medium and coarse subangular blocky structure; firm; few very fine roots throughout; 35 percent distinct clay films and 55 percent very dark grayish brown (10YR 3/2) silt coats; slightly acid, pH 6.5; clear wavy boundary.
- Bt2—24 to 44 inches (about 61 to 112 centimeters); dark yellowish brown (10YR 4/4) silty clay loam; moderate medium and coarse subangular blocky structure; firm; 55 percent distinct clay films and 55 percent brown (10YR 4/3) silt coats; slightly acid, pH 6.5; clear wavy boundary.
- Bt3—44 to 69 inches; dark yellowish brown (10YR 4/4) silty clay loam; moderate medium and coarse subangular blocky structure; firm; 35 percent brown (10YR 4/3) silt coats and 55 percent distinct clay films; 1 percent iron-manganese concretions; neutral, pH 7.0; clear wavy boundary. (combined thickness of the Bt horizons ranges from 30 to 60 inches)
- BC—69 to 101 inches; dark yellowish brown (10YR 4/4) silty clay; weak fine and medium subangular blocky structure; firm; 15 percent distinct clay films and 55 percent light olive brown (2.5Y 5/3) silt coats; 10 percent iron-manganese concretions and 10 percent medium faint strong brown (7.5YR 5/6) masses of oxidized iron throughout; neutral, pH 7.0. (20 to 40 inches thick)

### Range in Characteristics

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Mollic epipedon and argillic horizon

*Surface fragments:* None

*Depth to seasonal high water table:* More than 6 feet

*Surface fragments:* None

#### *Ap horizon:*

Hue—2.5YR to 10YR

Value—2 or 3 moist

Chroma—2 or 3 moist

Texture—silt loam

Rock fragments—0 to 11 percent subangular indurated sedimentary channers and 0 to 3 percent subangular indurated sedimentary flagstones

Reaction (pH)—6.1 to 7.8

Organic matter content—4.0 to 6.0 percent

#### *Bt horizon:*

Hue—7.5YR or 10YR

Value—3 to 5 moist

Chroma—2 to 4 moist

Texture—silty clay or silty clay loam

Rock fragments—0 to 9 percent subangular indurated sedimentary channers and 0 to 5 percent subangular indurated sedimentary flagstones

Reaction (pH)—6.1 to 7.8

Organic matter content—0.0 to 0.5 percent

*BC horizon:*

Hue—10YR to 2.5Y

Value—3 to 5 moist

Chroma—2 to 4 moist

Texture—silty clay, clay, or silty clay loam

Rock fragments—0 to 9 percent subangular indurated sedimentary channers and  
0 to 5 percent subangular indurated sedimentary flagstones

Reaction (pH)—6.1 to 7.8

Organic matter content—0.0 to 0.5 percent

## ***Zipp Series***

*Major land resource area:* 121, Kentucky Bluegrass

*State physiographic area:* Outer Bluegrass

*Map unit(s):* UafC—Urban land-Haplic Udarents-Zipp complex, 0 to 12 percent slopes;

ZpA—Zipp silty clay, 0 to 2 percent slopes, ponded

*Depth class:* Very deep

*Drainage class:* Very poorly drained

*Saturated hydraulic conductivity (Ksat):* Very low

*Landform(s):* Lacustrine depressions and lake plain in river valley

*Landform position(s) (three-dimensional):* Tread

*Parent material:* Clayey, lacustrine deposits of the Quaternary System

*Elevation:* 380 to 800 feet

*Slope:* 0 to 2 percent

*Taxonomic classification:* Fine, mixed, active, nonacid, mesic Typic Endoaquepts

### **Typical Pedon**

Zipp silty clay, 0 to 2 percent slopes, ponded; in a woodlot about 1.25 miles east of the intersection of Interstate 65 and State Highway 1631, about 0.9 mile southeast of the intersection of State Highway 1631 and State Highway 61, about 0.5 mile west of the intersection of State Highway 61 and Minors Lane, about 50 feet west of the intersection of Minors Lane and Dupin Drive, about 200 feet north of the intersection of Dupin Drive and Deanna Drive, about 75 feet west of the intersection of Deanna Drive and Bowie Drive to a farm access road, about 1 mile northwest on the farm road to a utility right-of-way, and about 200 feet southeast of the utility right-a-way into a woodlot; USGS Louisville East, Kentucky topographic quadrangle; lat. 38 degrees 9 minutes 2.70 seconds N. and long. 85 degrees 42 minutes 46.70 seconds W.; UTM Zone 16, 612767 meters easting, 4223323 meters northing; NAD83. (Colors are for moist soil unless otherwise noted.)

A—0 to 11 inches; grayish brown (2.5Y 5/2) silty clay; strong medium prismatic structure; very firm; common fine and medium roots throughout; 35 percent pressure faces on all faces of peds; 10 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary.

Bg1—11 to 19 inches; dark gray (N 4/0) silty clay; strong medium and coarse prismatic structure; extremely firm; common fine to coarse roots throughout; 35 percent pressure faces on all faces of peds; 1 percent prominent iron-manganese masses throughout, 10 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout, and 10 percent medium prominent gray (5Y 5/1) iron depletions throughout; neutral, pH 7.0; clear wavy boundary.

Bg2—19 to 35 inches; gray (N 5/0) silty clay; strong medium prismatic structure; extremely firm; common fine roots throughout; 1 percent prominent iron-manganese masses throughout and 10 percent medium prominent strong brown

(7.5YR 4/6) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary.

Bg3—35 to 55 inches; gray (5Y 5/1) silty clay; strong fine and medium angular blocky structure; extremely firm; common fine and medium roots throughout; 1 percent prominent iron-manganese masses throughout, 10 percent medium distinct light yellowish brown (2.5Y 6/3) iron depletions throughout, and 25 percent medium prominent strong brown (7.5YR 5/6) masses of oxidized iron throughout; neutral, pH 7.0; clear wavy boundary.

Cg—55 to 85 inches; gray (2.5Y 5/1) silty clay; massive; extremely firm; 10 percent medium distinct light yellowish brown (2.5Y 6/3) masses of oxidized iron throughout, 10 percent prominent iron-manganese masses throughout, and 25 percent medium prominent strong brown (7.5YR 4/6) masses of oxidized iron throughout; moderately alkaline, pH 8.0.

#### **Range in Characteristics**

*Depth to restrictive feature:* More than 80 inches

*Diagnostic feature(s):* Ochric epipedon, aquic conditions, and cambic horizon

*Surface fragments:* None

*Seasonal high water table (months):* January, February, March, April, May, November, and December

*Depth to top of water table:* 0 to 10 inches

*Surface fragments:* None

#### *A horizon:*

Hue—10YR to 2.5Y

Value—4 or 5 moist

Chroma—1 or 2 moist

Texture—silty clay

Rock fragments—none

Reaction (pH)—5.6 to 7.3

Organic matter content—1.0 to 3.0 percent

#### *Bg horizon:*

Hue—horizon has hue of 10YR to 5Y or is neutral in hue

Value—4 to 6 moist

Chroma—0 or 1 moist

Texture—clay or silty clay

Rock fragments—none

Reaction (pH)—5.6 to 7.3

Organic matter content—0.5 to 1.0 percent

#### *Cg horizon:*

Hue—horizon has hue of 10YR to 5Y and or is neutral in hue

Value—4 to 7 moist

Chroma—0 to 6 moist

Texture—clay or silty clay

Rock fragments—none

Reaction (pH)—6.6 to 8.4

Organic matter content—0.2 to 1.0 percent

The Zipp soils in Jefferson County are considered a taxadjunct to the series because they are in the Vertic subgroup. This difference, however, does not affect the use and management of the soils.



# Formation of the Soils

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This section relates the factors and processes of soil formation to the soils in Jefferson County. It also describes the physiography and geology of the survey area.

## Factors of Soil Formation

Soil is a three-dimensional natural body on the earth's surface consisting of mineral and organic matter that can support plant growth. Soil forms through the interaction of five major factors—climate, parent material, relief, plant and animal life, and time (11, 21). Climate, and plant and animal life act on the parent material. Their effects on soil formation are controlled by relief and the amount of time that they have been active. Each factor modifies the effects of the other four. The relative influence of each factor differs from place to place and determines varying characteristics of the soils.

All five factors are active in the formation of soils in Jefferson County. Theoretically, if the influence or action of these factors were identical at different sites, the soils at these sites would be identical. In reality, one factor may dominate the formation of soil characteristics at one site while a different factor may dominate at another site. Each factor may modify the effect of the other four.

In Jefferson County, climate and plant and animal life are not likely to vary greatly and their influence is relatively constant. Though there are large differences in relief, parent material has been the most influential factor in the formation of soils in the county.

## Climate

Climate affects soil formation primarily through the effects of temperature and rainfall on the chemical and physical weathering of geologic material, on erosion, and on the kind and number of plants and animals on and in the soils. Temperature affects the rate of chemical and physical changes in the soils and thus the rate of soil formation. For every increase of 10 degrees C in temperature, the rate of chemical reaction doubles. Moisture is essential to soil formation. Climate significantly influences the natural vegetation and animal life. Because of its effect on physical weathering through erosion and deposition, it also influences the relief of an area and the degree of profile development (11).

Changes in climate over long periods affect the soils. Soil formation is affected by the average climate condition, but extremes in the weather probably have had more influence on particular soil properties than on soil formation. The climate of Jefferson County is humid and temperate. The soils in the survey area formed under a temperate, moist climate that was probably similar to the present-day climate. The average annual temperature is 56 degrees F, and the average annual precipitation is 44 inches. Periods of extremely low temperatures during winter are short, and periods of high temperatures in summer are brief. Precipitation is fairly evenly distributed throughout the year.

Because the soils in the county are not dry or frozen for long periods, the processes of soil formation are active throughout the year. As water percolates downward through the soil, it leaches soluble bases from the soil and moves particles of silt and clay from



the upper horizons to the lower horizons. Because of the translocation of these materials over a period of time, many of the soils in the county are acid, have a loamy surface layer, and have accumulated clay in the subsoil. Alford, Beasley, Caneyville, Crider, Faywood, and Sandview soils are examples.

## **Parent Material**

Parent material is the unconsolidated mass in which soils form. It is derived from the weathering or decomposition of bedrock. In the early stages of soil formation, a soil has properties similar to those of the parent material. As weathering takes place over a long period of time, these properties are modified and the soil develops its own characteristics. The nature of the parent material affects the rate of weathering, and it also determines the texture and mineral composition of the soil. These properties affect the permeability, shrink-swell potential, and porosity of the soil.

The soils in Jefferson County formed in residuum, colluvium, river and stream alluvium, high-level fluvial deposits, lacustrine deposits, and loess. These parent materials have weathered from the Ordovician, Silurian, Devonian, and Mississippian Systems in the county or have been transported to the county from other areas by wind or water.

Many of the soils on uplands in the county formed in residuum, or materials weathered in place. These include Caneyville and Faywood soils which formed in residuum derived from limestone and shale of the Ordovician System. Beasley and Shrouts soils formed in residuum derived from soft, calcareous shale and dolomite of the Silurian System. All of these residual soils are clayey in the subsoil and substratum. Carpenter soils formed in colluvium on steep and very steep hillsides derived from shale and siltstone of the Mississippian System. These colluvial soils are loamy in the subsoil and substratum and have a high content of rock fragments.

Crider, Nicholson, and Sandview soils formed in a thin mantle of loess over limestone residuum. The upper part of the solum, which formed in loess, is silty, and the lower part, which formed in residuum, is clayey.

Gilpin, Weikert, and other soils formed in residuum of shale and siltstone of the Mississippian System on ridges and hillsides. These soils are loamy in the subsoil and substratum and have a high content of rock fragments.

Zipp and other soils formed in clayey, lacustrine deposits. These soils generally are clayey throughout.

Lawrence and Robertsville soils formed in very old alluvium, or high-level fluvial deposits. Elk, Otwood, Patton, Sciotoville, Weinbach, and Wheeling soils formed in alluvium on stream terraces. Boonewood, Chagrin, Huntington, Melvin, Nelse, Newark, and Nolin soils formed in the more recent alluvium on flood plains. The alluvial soils have less clay and more silt or sand in the subsoil and substratum than the soils that formed in residuum.

Some soils formed in clayey alluvium or colluvium over clayey residuum. These include Woolper soils on footslopes and stream terraces.

## **Relief**

Relief, or the position, shape, and slope of the landscape, affects the formation of soils through its influence on drainage, erosion, plant cover, and soil temperature. Because relief varies widely in the survey area, it accounts for many differences among the soils.

In areas of moderately steep to very steep relief, soils that are shallow or moderately deep to bedrock, such as Caneyville, Faywood, Gilpin, and Weikert, lose a considerable amount of water because of surface runoff and/or slower infiltration. As a

result, erosion removes soil material rapidly and deep soils generally cannot form because geologic erosion takes place almost as rapidly as soil formation. Deep and very deep soils, such as the colluvial Carpenter and Woolper soils form in areas where parent material moves down the slope slowly by water and gravity and accumulates at the lower end of the slope.

Gently sloping and sloping soils commonly show the influence of all five soil-forming factors. Although excess water runs off these soils, erosion is not excessive and enough water penetrates the surface and moves through the profile to cause leaching and a pronounced accumulation of clay in the subsoil. Since the surface layer is relatively stable, this downward movement of clay forms an argillic horizon. These gently sloping and sloping soils are commonly deep and have well drained profiles. Beasley, Crider, Elk, and Sandview soils are examples. Other steep and very steep soils are moderately deep because weathering of the underlying rock occurs at a faster rate than geologic erosion. Caneyville, Faywood, and Shrouds soils are examples.

In areas of Newark and Melvin soils and other nearly level soils, most of the water, excluding floodwater, drains through the soil profile. These soils are wet during part of the year because their landscape position does not allow the water to drain easily off the surface and may keep the water table at or near the surface. The wetness caused a depletion of the oxygen from the soil by microbial activity, which reduced the iron found naturally in the soil, and resulted in the formation of gray colors in the subsoil. In other nearly level and gently sloping soils, a fragipan may form under certain conditions. The fragipan restricts the downward movement of water and creates a perched water table above the fragipan during the wettest months of the year. Lawrence, Otwood, Sciotoville, and Weinbach soils are examples of these nearly level and gently sloping soils. Other soils with a fragipan, such as Robertsville, and soils without a fragipan, such as Patton and Zipp, actually have ponded water on their surfaces during the wettest months of the year. These conditions are caused by very slow permeability and landscape position.

The soil temperature and moisture and the plant cover are somewhat different on cool aspects (north- to east-facing slopes) than on warm aspects (south- to west-facing slopes). In Jefferson County, on very steep slopes, these affects are mainly evident in the differing composition of natural tree species growing on these slopes.

## **Plant and Animal Life**

The vegetation under which a soil forms influences soil properties, such as color, structure, reaction, and organic matter content. Plants affect soil formation primarily by extracting water from the soil, adding organic matter, and acting as a major link in nutrient cycles. Gases derived from root respiration combine with water to form acids that influence the weathering of minerals. Organic matter on the surface minimizes soil erosion and influences soil temperature. Organic matter in the soil helps to improve soil structure, adds nutrients, and increases the available water capacity. Burrowing animals, such as earthworms, moles, and groundhogs mix the darker surface layer with the subsoil. This helps to add organic matter to the subsoil and enhances the soil's ability to store air and water. Bacteria and fungi convert decaying plant and animal remains into organic matter and thus release plant nutrients.

Most of the soils in Jefferson County formed under hardwood forests. They are characterized by a thin, dark surface layer and a brighter colored subsoil. Some soils that have a thick, dark surface layer, such as Crider soils, probably formed under grasses. Some soils that have a thick, dark surface layer, such as Woolper soils, are the result of organic matter being removed from soils on the surrounding side slopes.

Human activities have considerably altered the surface layer of the soils in Jefferson

County and changed the environment. These activities include clearing forests and plowing the cleared areas, moving and mixing soil layers, draining wet areas, adding fertilizer and lime, and introducing new plants. In some cultivated areas, timber-harvested areas, and areas that have been overgrazed, accelerated erosion has removed most of the original surface layer and exposed the subsoil on sloping to steep soils. Cultivation has affected soil structure and compaction and lowered the content of organic matter.

Development of land for urban uses has significantly influenced the soils in many areas. The soils in urban areas have been altered in some form. Developers cut, fill, mix, and grade the soils on development sites to create uniform landforms. These activities leave the soil extremely variable within short distances. Diagnostic soil horizons that are generally a few inches to several feet below the soil surface may now be at the surface; surface horizons may be covered with a few inches to several feet of the substratum of soils from other sections of the development (or county); bedrock that is usually a few to several feet below the ground surface may only be a few inches below the surface layers; floodplain soils may be covered with a few inches to several feet of local or county-wide bedrock, topsoil, subsoil, or foreign materials; or a combination of these situations may exist on an individual lot. The use of heavy equipment, especially under wet conditions, severely compacts the soil and eliminates and/or reduces the infiltration and percolation rates of the remaining soils. The reduced or completely stopped infiltration rate increases surface runoff, increases the hazard of erosion, increases the flooding and deposition of soil materials in surrounding areas, and creates harsh environments for landscape plants.

## **Time**

Time is probably the least emphasized of the five factors of soil formation. A long period of time is required for distinct soil profiles to develop. The time required for a soil to form depends on the other soil-forming factors. The length of time required depends mainly on the nature of the parent material and relief. Less time is required for a soil to form in a warm, moist climate than in a cool, dry climate. Enough time has elapsed for the effects of the interaction of the factors of soil formation to be expressed in nearly all of the soils in Jefferson County, except for the soils that formed in recent alluvium.

Immature soils show little evidence of profile development and have retained many of the characteristics of the original parent material. The immature soils in Jefferson County are in areas on flood plains where a high water table and the deposition of fresh material prevent horizon development. Chagrin, Combs, Huntington, Lindside, Melvin, Nelse, Newark, Nolin, and Zipp soils are examples. Some immature soils are in areas on steep side slopes where runoff and geologic erosion prevent profile development. Weikert and Carpenter soils are examples.

Mature soils have well developed profiles. Alford, Beasley, Crider, Sandview, and Woolper soils are examples. They generally are on relatively stable surfaces and are deep or very deep to bedrock. Weathering has translocated minerals and the finer textured material into the subsoil and has resulted in horizon development.

## **Processes of Horizon Differentiation**

The formation of a succession of layers, or horizons, in a soil is the result of one or more of the following processes: 1) the accumulation of organic matter; 2) the leaching of carbonates and other soluble minerals; 3) the chemical weathering of primary minerals into silicate clay minerals; 4) the translocation of the silicate clays and probably some silt-sized particles from one horizon to another; and 5) the oxidation, reduction, and translocation of iron (45).

Several of these processes have been active in the formation of the soils in Jefferson County. The interaction of the first four processes is reflected in the strongly expressed horizons in the well drained Alford, Beasley, Crider, Sandview, and Woolper soils. All five processes have been active in the formation of the moderately well drained Nicholson, Otwood, and Tilsit soils.

Soils are deposited as or develop into layers (39). Where soil-forming factors are favorable, five or six master horizons may be in a mineral soil profile. Each master horizon is subdivided into specific layers that have a unique identity. The thickness of each layer varies with location. Under disturbed conditions, such as intensive agriculture, or where erosion is severe, not all horizons are present. Young soils have fewer major horizons, such as bottomland soils and soils with deep loess. Nolin, Lindside, Newark, Melvin, Huntington, and Combs soils are examples of young alluvial soils. Alford soils are an example of soils with deep loess.

The uppermost layer generally is an organic horizon, or O horizon. It consists of fresh and decaying plant residue from such sources as leaves, needles, twigs, moss, lichens, and other accumulations of organic material. The O horizon is dark because decomposition is producing humus.

Below the O horizon is the A horizon. The A horizon is mainly mineral material. It is generally darker than the lower horizons because of the varying amounts of humified organic matter. This horizon is where most root activity occurs and is usually the most productive layer of soil. It may be referred to as a surface layer. Carpenter and Gilpin soils are examples of soils with A horizons. An A horizon that has been disturbed and mixed is designated as an Ap horizon. Crider, Nolin, Elk, Lawrence, and Otwood soils are examples of soils with Ap horizons.

The E horizon generally is bleached or whitish in appearance. As water moves down through this horizon, soluble minerals and nutrients dissolve and some dissolved materials are washed away (leached). The main feature of this horizon is the loss of silicate clay, iron, aluminum, humus, or some combination of these. The loss leaves a concentration of sand and silt particles. Gilpin soils are an example of soils with an E horizon.

Below the A or E horizon is the B horizon, or subsoil. The B horizon is usually lighter colored, denser, and lower in organic matter than the A horizon. It commonly is the zone where leached materials accumulate. The B horizon is further defined by the materials that make up the accumulation. A horizon designated as a Bt horizon indicates that clay has accumulated. Crider, Elk, Beasley, Otwood, and Wheeling soils are examples of soils with Bt horizons. Other illuvial concentrations or accumulations include iron, aluminum, humus, carbonates, gypsum, and silica. A B horizon that does not have recognizable concentrations but shows color or structural differences from adjacent horizons is designated as a Bw horizon. Nolin, Lindside, Huntington, Combs, and Boonewood soils are examples of soils with Bw horizons.

The C horizon or substratum is deeper in the profile. This horizon is partially disintegrated parent material and mineral particles or other sediments that have been subjected to soil-forming factors for only a short period of time. Chagrin, Combs, Huntington, Nelse, and Shrouts soils are examples of soils with C horizons. A C horizon designated as a 2C horizon consists of different material, usually of an older age than that of horizons which overlie it. Alford, Carpenter, Crider, Elk, and Nicholson soils are examples of soils with 2C horizons. Some soils have a soft bedrock horizon that is designated as a Cr horizon. Beasley, Shrouts, and Carpenter soils are examples of soils with Cr horizons. The lowest or deepest horizon, the R horizon, is bedrock. Bedrock can be within a few inches of the surface or many feet below the surface. Caneyville, Faywood, and Boonewood soils are examples of soils with R horizons. Where bedrock is very deep and below a depth of 80 inches, an R horizon is not described. Alford, Crider, and Nicholson soils are example of soils that have bedrock below a depth of 80 inches.

## Physiographic and Geology

Jefferson County is in parts of two physiographic regions—the Outer Bluegrass and the Knobs (4). The Outer Bluegrass Physiographic Region covers the northeastern 95 percent of the county, and the Knobs Physiographic Region covers the remaining 5 percent, in the southwestern part of the county.

The Outer Bluegrass Physiographic Region occurs on geologic strata of the Ordovician and Silurian Systems, while the Knobs Physiographic Region occurs on geologic strata of the Mississippian and Devonian Systems. In addition to these geologic systems, the flood plains and terraces of the county are on deposits of the Quaternary System.

Because the county occurs in two physiographic regions and on five geologic systems, it is very diverse in landforms and geologic material. The diversity is expressed in the variety of soils that formed from the differential weathering and/or erosion of the bedrock. The major geologic strata underlying the soils in the county are of the Paleozoic era (52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63). The upper Mississippian, Devonian, Silurian, and Ordovician sedimentary rocks were deposited in moderately deep to shallow seas 250 to 500 million years ago, while the lower Mississippian sedimentary rocks were deposited in a deltatic environment. The southwestern and central parts of the county have a thick to thin mantle of terrace sediments and/or loess deposits of the Quaternary System that overlie either the Mississippian or Ordovician System. The Ohio River valley and the tributaries flowing to the Ohio River consist of alluvial material of the Quaternary System. Table 23 shows the relationship of the geologic systems, formations, and members to the soils in the county.

Additional geologic information for Jefferson County is available at the Kentucky Geologic Survey website and the U.S. Geologic Service website.

The five geologic systems identified within Jefferson County have been further subdivided into a number of formations, members, beds, or deposits. The materials of these divisions have influenced the landscape and the soils that have formed on them. For discussion, the geologic systems and their different subdivision are listed in the following paragraphs, in sequence from youngest to oldest.

### Quaternary System

The Quaternary System consists of alluvial deposits on flood plains and terraces along the Ohio River and its tributaries and along intermittent and perennial drains throughout the county. Alluvial deposits can be found in both the Knobs and Outer Bluegrass Physiographic Regions (52, 53, 54, 55, 56, 57, 58, 59, 61, 62, 63). The largest of these deposits is along the Ohio River, Floyds Fork, Mill Creek, and Pond Creek. These Quaternary deposits include recent alluvium, lacustrine deposits, outwash, loess, and eolian sand. The soils are moderately deep to very deep, have a very strongly acid to moderately alkaline reaction, and have a loamy to clayey subsoil. Elk, Lawrence, Otwood, Patton, Robertsville, Sciotoville, Weinbach, Wheeling, Woolper, and Zipp soils are the dominant soils on the terraces. Boonewood, Chargin, Huntington, Combs, Lindside, Melvin, Nelse, Newark, and Nolin soils are the dominant soils on the flood plains. Alford soils, which have thick loess, occur on both the Ohio River terraces and in the Knobs region.

### Mississippian and Devonian Systems

The Mississippian and Devonian Systems form the side slopes and knobs in the southern part of the county. The geological weathering of these systems produce conical formations, or knobs, from which the Knobs Physiographic Region derives its



name. The Knobs region is very narrow in the county and is included with the Bluegrass Major Land Resource Area (49).

The Mississippian System consist of the Harrodsburg Limestone and Borden Formations and their respective members. The system forms the ridgetops and side slopes in the southwestern part of Jefferson County.

The Harrodsburg Limestone is on narrow to moderately wide ridgetops. Elevations range from about 870 to 900 feet. The soils are moderately deep, have a slightly acid to slightly alkaline reaction, and have a clayey subsoil. Caneyville soils are the dominant soils.

The Borden Formation has five identifiable members in the survey area. These members are the Muldraugh, Holtsclaw Siltstone, Nancy, Kenwood Siltstone, and the New Providence Shale.

The Muldraugh and Holtsclaw Shale Members consist of dolomitic siltstone, siltstone, and shale (53, 55, 58). They weathered to form saddles and narrow points below the Harrodsburg Limestone Formation. Elevations range from about 780 to 870 feet. The soils are moderately deep to very deep, have a strongly and very strongly acid reaction, and have a loamy to clayey subsoil. Carpenter and Gilpin soils are the dominant soils.

The Nancy Member is dominantly shale (53, 55, 58). As it weathered, it formed moderately broad to broad ridgetops and short upper side slopes. Elevations range from about 750 to 900 feet. The soils are very deep, have a strongly acid and very strongly acid reaction, and have a loamy subsoil. Gilpin and Tilsit soils are the dominant soils.

The Kenwood Siltstone and New Providence Shale Members consist of siltstone, shale, and, to minor extent, limestone (53, 55, 58). As they weathered, they formed the short upper side slopes and narrow rocky ridgetops of the knobs and uplands at the contact with the older Mississippian and Devonian or Ordovician Systems. Elevations range from about 470 to 750 feet. The soils are moderately deep to very deep, have a strongly acid and very strongly acid reaction, have a loamy subsoil, and contain a high content of rock fragments. Gilpin and Weikert soils are the dominant soils.

Some areas of the Knobs are covered with loess (silty material). The upper 2 to 4 feet of the soils formed in the loess and the lower part weathered from the underlying formations to form loamy material. The soils are very deep, have a strongly acid to mildly alkaline reaction, and have a loamy subsoil. Alford soils are the dominant soils.

The Devonian System is composed of the New Albany Shale and Beechwood Limestone Members (53, 54, 55, 56, 57, 58, 59, 61). The New Albany Shale is of very limited extent in Jefferson County. Elevations range from about 450 to 560 feet. The soils are moderately deep to very deep, have a strongly acid to extremely acid reaction, and have a loamy to clayey subsoil. Caneyville, Crider, and Nicholson soils are the dominant soils.

## **Silurian System**

The Silurian System covers the central part of the county. This system consists of interbedded calcareous shale and dolomitic limestone of the Louisville Limestone, Waldron Shale, Laurel Dolomite, and the Osgood and Brassfield Formations.

The Louisville Limestone is predominately dolomitic limestone (52, 53, 54, 55, 57, 58, 61, 62). As it weathered, it formed broad, nearly level ridgetops and short side slopes. Elevations range from about 500 to 750 feet. The soils on the ridgetops are moderately deep to very deep, and the soils on side slopes are moderately deep. The soils have a moderately acid to moderately alkaline reaction and a clayey subsoil. Crider, Caneyville, and Nicholson soils are the dominant soils.

The Waldron Shale, Laurel Dolomite, Osgood, and Brassfield Formations consist of dolomite, dolomitic limestone, and calcareous, clay shale (54, 55, 61, 63). As they

weathered, they formed moderately broad and broad, rolling ridgetops and short side slopes. Elevations range from about 640 to 740 feet. The soils are deep and very deep, have a moderately acid to moderately alkaline reaction, and have a clayey subsoil. Beasley, Faywood, and Shrouts soils are the dominant soils.

Some areas with broader ridgetops are covered with loess. Soils formed in the upper 2 feet of loess. Clayey material weathered from the underlying formations formed in the lower part. Soils in these areas are very deep, have a strongly acid to mildly alkaline reaction, and have loamy over clayey subsoils. Crider and Nicholson soils are the dominant soils.

## **Ordovician System**

The Ordovician System covers the eastern quarter of Jefferson County. This system is made up of interbedded, dolomitic limestone and shale of the Saluda Dolomite, interbedded limestone and shale of the Bardstown and Rowland Members of the Drakes Formation, and limestone and shale of the Grant Lake Limestone (52, 53, 54, 59, 61, 60). As these formations weathered they formed narrow to broad, rolling ridgetops and short to long side slopes. Elevations range from about 480 to 760 feet. The soils range from shallow to very deep. Most of the soils have a moderately acid to moderately alkaline reaction and a clayey subsoil. Beasley and Shrouts soils are the dominant soils in material weathered from the Saluda Dolomite and Bardstown Members of the Drakes Formation. Faywood and Woolper soils formed in the material weathered from the interbedded limestone and shale of the Rowland Member of the Drakes Formation and the Grant Lake Limestone.

In some areas, the broader ridgetops are covered with loess. Soils formed in the upper 2 to 4 feet of loess. Clayey material weathered from the underlying formations formed in the lower part. Soils in these areas are very deep, have a strongly acid to mildly alkaline reaction, and have a loamy over clayey subsoil. Nicholson and Sandview soils are the dominant soils.



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# Glossary

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**Aeration, soil.** The exchange of air in soil with air from the atmosphere. The air in a well aerated soil is similar to that in the atmosphere; the air in a poorly aerated soil is considerably higher in carbon dioxide and lower in oxygen.

**Aggregate, soil.** Many fine particles held in a single mass or cluster. Natural soil aggregates, such as granules, blocks, or prisms, are called peds. Clods are aggregates produced by tillage or logging.

**Alluvial fan.** The fanlike deposit of a stream where it issues from a gorge upon a plain or of a tributary stream near or at its junction with its main stream.

**Alluvium.** Material, such as sand, silt, or clay, deposited on land by streams.

**Animal unit month (AUM).** The amount of forage required by one mature cow of approximately 1,000 pounds weight, with or without a calf, for 1 month.

**Aquic conditions.** Current soil wetness characterized by saturation, reduction, and redoximorphic features.

**Area reclaim.** (in tables). An area difficult to reclaim after the removal of soil for construction and other uses. Revegetation and erosion control are extremely difficult.

**Argillic horizon.** subsoil horizon characterized by an accumulation of illuvial clay.

**Aspect.** The direction in which a slope faces.

**Available water capacity (available moisture capacity).** The capacity of soils to hold water available for use by most plants. It is commonly defined as the difference between the amount of soil water at field moisture capacity and the amount at wilting point. It is commonly expressed as inches of water per inch of soil. The capacity, in inches, in a 60-inch profile or to a limiting layer is expressed as:

Very low .....	0 to 3
Low .....	3 to 6
Moderate .....	6 to 9
High .....	9 to 12
Very high .....	more than 12

**Backslope.** The position that forms the steepest and generally linear, middle portion of a hillslope. In profile, backslopes are commonly bounded by a convex shoulder above and a concave footslope below.

**Basal area.** The area of a cross section of a tree, generally referring to the section at breast height and measured outside the bark. It is a measure of stand density, commonly expressed in square feet.

**Base saturation.** The degree to which material having cation-exchange properties is saturated with exchangeable bases (sum of Ca, Mg, Na, and K), expressed as a percentage of the total cation-exchange capacity.

**Bedrock.** The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.

**Bottom land.** The normal flood plain of a stream, subject to flooding.

**Boulders.** Rock fragments larger than 2 feet (60 centimeters) in diameter.

**Breast height.** An average height of 4.5 feet above the ground surface; the point on a tree where diameter measurements are ordinarily taken.

**Brush management.** Use of mechanical, chemical, or biological methods to make



conditions favorable for reseeding or to reduce or eliminate competition from woody vegetation and thus allow understory grasses and forbs to recover. Brush management increases forage production and thus reduces the hazard of erosion. It can improve the habitat for some species of wildlife.

**Calcareous soil.** A soil containing enough calcium carbonate (commonly combined with magnesium carbonate) to effervesce visibly when treated with cold, dilute hydrochloric acid.

**Canopy.** The leafy crown of trees or shrubs. (See Crown.)

**Capillary water.** Water held as a film around soil particles and in tiny spaces between particles. Surface tension is the adhesive force that holds capillary water in the soil.

**Cation.** An ion carrying a positive charge of electricity. The common soil cations are calcium, potassium, magnesium, sodium, and hydrogen.

**Cation-exchange capacity.** The total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. The term, as applied to soils, is synonymous with base-exchange capacity but is more precise in meaning.

**Channery soil material.** Soil material that has, by volume, 15 to 35 percent thin, flat fragments of sandstone, shale, slate, limestone, or schist as much as 6 inches (15 centimeters) along the longest axis. A single piece is called a channer.

**Chemical treatment.** Control of unwanted vegetation through the use of chemicals.

**Chert.** A hard, dense or compact, dull to semivitreous, cryptocrystalline sedimentary rock, consisting of cryptocrystalline silica (microcrystalline fibrous quartz; i.e., chalcedony) with lesser amounts of microcrystalline or cryptocrystalline quartz and amorphous silica (opal). It has a tough, splintery to conchoidal fracture and may be white or variously colored gray, green, blue, pink, yellow, brown, and black. It commonly occurs as nodular or concretionary segregations in limestones and dolomites.

**Chiseling.** Tillage with an implement having one or more soil-penetrating points that shatter or loosen hard, compacted layers to a depth below normal plow depth.

**Clay.** As a soil separate, the mineral soil particles less than 0.002 millimeters in diameter. As a soil textural class, soil material that is 40 percent or more clay, less than 45 percent sand, and less than 40 percent silt.

**Clay depletions.** Low-chroma zones having a low content of iron, manganese, and clay because of the chemical reduction of iron and manganese and the removal of iron, manganese, and clay. A type of redoximorphic depletion.

**Clay film.** A thin coating of oriented clay on the surface of a soil aggregate or lining pores or root channels. Synonyms: clay coating, clay skin.

**Climax plant community.** The stabilized plant community on a particular site. The plant cover reproduces itself and does not change so long as the environment remains the same.

**Coarse textured soil.** Sand or loamy sand.

**Cobble (or cobblestone).** A rounded or partly rounded fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.

**Cobble (or cobblestone).** A rounded or partly rounded fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.

**Colluvium.** Soil material or rock fragments, or both, moved by creep, slide, or local wash and deposited at the base of steep slopes.

**Complex slope.** Irregular or variable slope. Planning or establishing terraces, diversions, and other water-control structures on a complex slope is difficult.

**Complex, soil.** A map unit of two or more kinds of soil or miscellaneous areas in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas.

- Concretions.** Cemented bodies with crude internal symmetry organized around a point, a line, or a plane. They typically take the form of concentric layers visible to the naked eye. Calcium carbonate, iron oxide, and manganese oxide are common compounds making up concretions. If formed in place, concretions of iron oxide or manganese oxide are generally considered a type of redoximorphic concentration.
- Conglomerate.** A coarse-grained, clastic rock composed of rounded or subangular rock fragments more than 2 millimeters in diameter. It commonly has a matrix of sand and finer textured material. Conglomerate is the consolidated equivalent of gravel.
- Conservation cropping system.** Growing crops in combination with needed cultural and management practices. In a good conservation cropping system, the soil-improving crop and practices more than offset the effects of the soil-depleting crops and practices. Cropping systems are needed on all tilled soils. Soil-improving practices in a conservation cropping system include the use of rotations that contain grasses and legumes and the return of crop residue to the soil. Other practices include the use of green manure crops of grasses and legumes, proper tillage, adequate fertilization, and weed and pest control.
- Conservation tillage.** A tillage system that does not invert the soil and that leaves a protective amount of crop residue on the surface throughout the year.
- Consistence, soil.** Refers to the degree of cohesion and adhesion of soil material and its resistance to deformation when ruptured. Consistence includes resistance of soil material to rupture and to penetration; plasticity, toughness, and stickiness of puddled soil material; and the manner in which the soil material behaves when subject to compression. Terms describing consistence are defined in the "Soil Survey Manual."
- Contour stripcropping.** Growing crops in strips that follow the contour. Strips of grass or close-growing crops are alternated with strips of clean-tilled crops or summer fallow.
- Control section.** The part of the soil on which classification is based. The thickness varies among different kinds of soil, but for many it is that part of the soil profile between depths of 10 inches and 40 or 80 inches.
- Corrosion.** Soil-induced electrochemical or chemical action that dissolves or weakens concrete or uncoated steel.
- Cover crop.** A close-growing crop grown primarily to improve and protect the soil between periods of regular crop production, or a crop grown between trees and vines in orchards and vineyards.
- Cropping system.** Growing crops according to a planned system of rotation and management practices.
- Crop residue management.** Returning crop residue to the soil, which helps to maintain soil structure, organic matter content, and fertility and helps to control erosion.
- Cross-slope farming.** Deliberately conducting farming operations on sloping farmland in such a way that tillage is across the general slope.
- Crown.** The upper part of a tree or shrub, including the living branches and their foliage.
- Deferred grazing.** Postponing grazing or resting grazing land for a prescribed period.
- Depth, soil.** Generally, the thickness of the soil over bedrock. Very deep soils are more than 60 inches deep over bedrock; deep soils, 40 to 60 inches; moderately deep soils, 20 to 40 inches; shallow soils, 10 to 20 inches; and very shallow soils, less than 10 inches.
- Depth to rock (in tables).** Bedrock is too near the surface for the specified use.
- Diversion (or diversion terrace).** A ridge of earth, generally a terrace, built to protect downslope areas by diverting runoff from its natural course.
- Drainage class** (natural). Refers to the frequency and duration of wet periods under

conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, is not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized—*excessively drained*, *somewhat excessively drained*, *well drained*, *moderately well drained*, *somewhat poorly drained*, *poorly drained*, and *very poorly drained*. These classes are defined in the “Soil Survey Manual.”

**Drainage, surface.** Runoff, or surface flow of water, from an area.

**Eluviation.** The movement of material in true solution or colloidal suspension from one place to another within the soil. Soil horizons that have lost material through eluviation are eluvial; those that have received material are illuvial.

**Endosaturation.** A type of saturation of the soil in which all horizons between the upper boundary of saturation and a depth of 2 meters are saturated.

**Eolian soil material.** Earthy parent material accumulated through wind action; commonly refers to sandy material in dunes or to loess in blankets on the surface.

**Ephemeral stream.** A stream, or reach of a stream, that flows only in direct response to precipitation. It receives no long-continued supply from melting snow or other source, and its channel is above the water table at all times.

**Episaturation.** A type of saturation indicating a perched water table in a soil in which saturated layers are underlain by one or more unsaturated layers within 2 meters of the surface.

**Erosion.** The wearing away of the land surface by water, wind, ice, or other geologic agents and by such processes as gravitational creep.

*Erosion* (geologic). Erosion caused by geologic processes acting over long geologic periods and resulting in the wearing away of mountains and the building up of such landscape features as flood plains and coastal plains. Synonym: natural erosion.

*Erosion* (accelerated). Erosion much more rapid than geologic erosion, mainly as a result of human or animal activities or of a catastrophe in nature, such as a fire, that exposes the surface.

**Excess fines (in tables).** Excess silt and clay in the soil. The soil does not provide a source of gravel or sand for construction purposes.

**Escarpment.** A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Synonym: scarp.

**Fallow.** Cropland left idle in order to restore productivity through accumulation of moisture. Summer fallow is common in regions of limited rainfall where cereal grain is grown. The soil is tilled for at least one growing season for weed control and decomposition of plant residue.

**Fertility, soil.** The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tilth, and other growth factors are favorable.

**Field moisture capacity.** The moisture content of a soil, expressed as a percentage of the oven-dry weight, after the gravitational, or free, water has drained away; the field moisture content 2 or 3 days after a soaking rain; also called *normal field capacity*, *normal moisture capacity*, or *capillary capacity*.

**Fine textured soil.** Sandy clay, silty clay, or clay.

**First bottom.** The normal flood plain of a stream, subject to frequent or occasional flooding.

**Flaggy soil material.** Material that has, by volume, 15 to 35 percent flagstones. Very flaggy soil material has 35 to 60 percent flagstones, and extremely flaggy soil material has more than 60 percent flagstones.

**Flagstone.** A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.

- Flood plain.** A nearly level alluvial plain that borders a stream and is subject to flooding unless protected artificially.
- Fluvial.** Of or pertaining to rivers; produced by river action, as a fluvial plain.
- Footslope.** The position that forms the inner, gently inclined surface at the base of a hillslope. In profile, footslopes are commonly concave. A footslope is a transition zone between upslope sites of erosion and transport (shoulders and backslopes) and downslope sites of deposition (toeslopes).
- Forage.** Food for browsing or grazing animals.
- Forb.** Any herbaceous plant not a grass or a sedge.
- Forest cover.** All trees and other woody plants (underbrush) covering the ground in a forest.
- Forest type.** A stand of trees similar in composition and development because of given physical and biological factors by which it may be differentiated from other stands.
- Formation.** The basic rock-stratigraphic unit in the local classification of rock (commonly a sedimentary stratum or strata but also igneous and metamorphic rocks) generally characterized by some degree of internal lithologic homogeneity of distinctive lithologic features (such as chemical composition, structures, texture, or general kind of fossils), by a prevailing (but not necessarily tabular) shape, and by mapability at the earth's surface (at scales of the order of 1:25,000) or traceability in the subsurface.
- Fragipan.** A loamy, brittle subsurface horizon low in porosity and content of organic matter and low or moderate in clay but high in silt or very fine sand. A fragipan appears cemented and restricts roots. When dry, it is hard or very hard and has a higher bulk density than the horizon or horizons above. When moist, it tends to rupture suddenly under pressure rather than to deform slowly.
- Frost action (in tables).** Freezing and thawing of soil moisture. Frost action can damage roads, buildings and other structures, and plant roots.
- Genesis, soil.** The mode of origin of the soil. Refers especially to the processes or soil-forming factors responsible for the formation of the solum, or true soil, from the unconsolidated parent material.
- Gleyed soil.** Soil that formed under poor drainage, resulting in the reduction of iron and other elements in the profile and in gray colors.
- Graded stripcropping.** Growing crops in strips that grade toward a protected waterway.
- Grassed waterway.** A natural or constructed waterway, typically broad and shallow, seeded to grass as protection against erosion. Conducts surface water away from cropland.
- Gravel.** Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6 centimeters) in diameter. An individual piece is a pebble.
- Gravelly soil material.** Material that has 15 to 35 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.
- Green manure crop (agronomy).** A soil-improving crop grown to be plowed under in an early stage of maturity or soon after maturity.
- Ground water.** Water filling all the unblocked pores of the material below the water table.
- Gully.** A miniature valley with steep sides cut by running water and through which water ordinarily runs only after rainfall. The distinction between a gully and a rill is one of depth. A gully generally is an obstacle to farm machinery and is too deep to be obliterated by ordinary tillage; a rill is of lesser depth and can be smoothed over by ordinary tillage.
- Hard bedrock.** Bedrock that cannot be excavated except by blasting or by the use of special equipment that is not commonly used in construction.

**High-residue crops.** Such crops as small grain and corn used for grain. If properly managed, residue from these crops can be used to control erosion until the next crop in the rotation is established. These crops return large amounts of organic matter to the soil.

**Hill.** A natural elevation of the land surface, rising as much as 1,000 feet above surrounding lowlands, commonly of limited summit area and having a well defined outline; hillsides generally have slopes of more than 15 percent. The distinction between a hill and a mountain is arbitrary and is dependent on local usage.

**Horizon, soil.** A layer of soil, approximately parallel to the surface, having distinct characteristics produced by soil-forming processes. In the identification of soil horizons, an uppercase letter represents the major horizons. Numbers or lowercase letters that follow represent subdivisions of the major horizons. An explanation of the subdivisions is given in the "Soil Survey Manual." The major horizons of mineral soil are as follows:

*O horizon.*—An organic layer of fresh and decaying plant residue.

*A horizon.*—The mineral horizon at or near the surface in which an accumulation of humified organic matter is mixed with the mineral material. Also, a plowed surface horizon, most of which was originally part of a B horizon.

*E horizon.*—The mineral horizon in which the main feature is loss of silicate clay, iron, aluminum, or some combination of these.

*B horizon.*—The mineral horizon below an A horizon. The B horizon is in part a layer of transition from the overlying A to the underlying C horizon. The B horizon also has distinctive characteristics, such as (1) accumulation of clay, sesquioxides, humus, or a combination of these; (2) prismatic or blocky structure; (3) redder or browner colors than those in the A horizon; or (4) a combination of these.

*C horizon.*—The mineral horizon or layer, excluding indurated bedrock, that is little affected by soil-forming processes and does not have the properties typical of the overlying soil material. The material of a C horizon may be either like or unlike that in which the solum formed. If the material is known to differ from that in the solum, an Arabic numeral, commonly a 2, precedes the letter C.

*Cr horizon.*—Soft, consolidated bedrock beneath the soil.

*R layer.*—Consolidated bedrock beneath the soil. The bedrock commonly underlies a C horizon, but it can be directly below an A or a B horizon.

**Humus.** The well decomposed, more or less stable part of the organic matter in mineral soils.

**Hydrologic soil groups.** Refers to soils grouped according to their runoff potential.

The soil properties that influence this potential are those that affect the minimum rate of water infiltration on a bare soil during periods after prolonged wetting when the soil is not frozen. These properties are depth to a seasonal high water table, the infiltration rate and permeability after prolonged wetting, and depth to a very slowly permeable layer. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff.

**Illuviation.** The movement of soil material from one horizon to another in the soil profile. Generally, material is removed from an upper horizon and deposited in a lower horizon.

**Impervious soil.** A soil through which water, air, or roots penetrate slowly or not at all. No soil is absolutely impervious to air and water all the time.

**Infiltration.** The downward entry of water into the immediate surface of soil or other material, as contrasted with percolation, which is movement of water through soil layers or material.

**Infiltration capacity.** The maximum rate at which water can infiltrate into a soil under a given set of conditions.

**Infiltration rate.** The rate at which water penetrates the surface of the soil at any given



instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface.

**Intermittent stream.** A stream, or reach of a stream, that flows for prolonged periods only when it receives ground-water discharge or long, continued contributions from melting snow or other surface and shallow subsurface sources.

**Iron depletions.** Low-chroma zones having a low content of iron and manganese oxide because of chemical reduction and removal, but having a clay content similar to that of the adjacent matrix. A type of redoximorphic depletion.

**Karst (topography).** The relief of an area underlain by limestone that dissolves in differing degrees, thus forming numerous depressions or small basins.

**K<sub>sat</sub>.** See Saturated hydraulic conductivity.

**Lacustrine deposit.** Material deposited in lake water and exposed when the water level is lowered or the elevation of the land is raised.

**Landform.** Any physical, recognizable form or feature of the earth's surface, having a characteristic shape and produced by natural causes; it includes major forms, such as plain, plateau, and mountain, and minor forms, such as hill, valley, and slope.

**Landscape (geology).** The distinct association of landforms, especially as modified by geologic forces, that can be seen in a single view.

**Landslide.** The rapid downhill movement of a mass of soil and loose rock, generally when wet or saturated. The speed and distance of movement, as well as the amount of soil and rock material, vary greatly.

**Large stone (in tables).** Rock fragments 3 inches (7.6 centimeters) or more across. Large stones adversely affect the specified use of the soil.

**Leaching.** The removal of soluble material from soil or other material by percolating water.

**Limestone.** A sedimentary rock consisting chiefly of calcium carbonate, primarily in the form of calcite. Limestones are generally formed by a combination of organic and inorganic processes and include soluble and insoluble constituents; many limestones contain fossils.

**Linear extensibility.** Refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. Linear extensibility is used to determine the shrink-swell potential of soils. It is an expression of the volume change between the water content of the clod at  $1/3$ - or  $1/10$ -bar tension (33kPa or 10kPa tension) and oven dryness. Volume change is influenced by the amount and type of clay minerals in the soil. The volume change is the percent change for the whole soil. If it is expressed as a fraction, the resulting value is COLE, coefficient of linear extensibility.

**Liquid limit.** The moisture content at which the soil passes from a plastic to a liquid state.

**Loam.** Soil material that is 7 to 27 percent clay particles, 28 to 50 percent silt particles, and less than 52 percent sand particles.

**Loess.** Fine-grained material, dominantly of silt-sized particles, deposited by wind. Thick loess is 48 inches or more. Thin loess is less than 48 inches thick.

**Low-residue crops.** Such crops as corn used for silage, peas, beans, and potatoes. Residue from these crops is not adequate to control erosion until the next crop in the rotation is established. These crops return little organic matter to the soil.

**Low strength.** The soil is not strong enough to support loads.

**Marl.** An earthy, unconsolidated deposit consisting chiefly of calcium carbonate mixed with clay in approximately equal amounts.

**Masses.** Concentrations of substances in the soil matrix that do not have a clearly defined boundary with the surrounding soil material and cannot be removed as a discrete unit. Common compounds making up masses are calcium carbonate, gypsum or other soluble salts, iron oxide, and manganese oxide. Masses

consisting of iron oxide or manganese oxide generally are considered a type of redoximorphic concentration.

**Mechanical treatment.** Use of mechanical equipment for seeding, brush management, and other management practices.

**Medium textured soil.** Very fine sandy loam, loam, silt loam, or silt.

**Mineral soil.** Soil that is mainly mineral material and low in organic material. Its bulk density is more than that of organic soil.

**Minimum tillage.** Only the tillage essential to crop production and prevention of soil damage.

**Miscellaneous area.** An area that has little or no natural soil and supports little or no vegetation.

**Moderately coarse textured soil.** Coarse sandy loam, sandy loam, or fine sandy loam.

**Moderately fine textured soil.** Clay loam, sandy clay loam, or silty clay loam.

**Mollic epipedon.** A thick, dark, humus-rich surface horizon (or horizons) that has high base saturation and pedogenic soil structure. It may include the upper part of the subsoil.

**Morphology, soil.** The physical makeup of the soil, including the texture, structure, porosity, consistence, color, and other physical, mineral, and biological properties of the various horizons, and the thickness and arrangement of those horizons in the soil profile.

**Mottling, soil.** Irregular spots of different colors that vary in number and size. Descriptive terms are as follows: abundance—*few*, *common*, and *many*; size—*fine*, *medium*, and *coarse*; and contrast—*faint*, *distinct*, and *prominent*. The size measurements are of the diameter along the greatest dimension. *Fine* indicates less than 5 millimeters (about 0.2 inch); *medium*, from 5 to 15 millimeters (about 0.2 to 0.6 inch); and *coarse*, more than 15 millimeters (about 0.6 inch).

**Mountain.** A natural elevation of the land surface, rising more than 1,000 feet above surrounding lowlands, commonly of restricted summit area (relative to a plateau) and generally having steep sides. A mountain can occur as a single, isolated mass or in a group forming a chain or range.

**Mudstone.** Sedimentary rock formed by induration of silt and clay in approximately equal amounts.

**Munsell notation.** A designation of color by degrees of three simple variables—hue, value, and chroma. For example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4.

**Neutral soil.** A soil having a pH value of 6.6 to 7.3. (See Reaction, soil.)

**Nodules.** Cemented bodies lacking visible internal structure. Calcium carbonate, iron oxide, and manganese oxide are common compounds making up nodules. If formed in place, nodules of iron oxide or manganese oxide are considered types of redoximorphic concentrations.

**Nose slope.** A geomorphic component of hills consisting of the projecting end (laterally convex area) of a hillside. The overland waterflow is predominantly divergent.

**Nutrient, plant.** Any element taken in by a plant essential to its growth. Plant nutrients are mainly nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, iron, manganese, copper, boron, and zinc obtained from the soil and carbon, hydrogen, and oxygen obtained from the air and water.

**Ordovician.** The second earliest period of the Paleozoic era of geologic time extending from the Cambrian period (about 500 million years ago) to the beginning of the Silurian period (about 425 million years ago).

**Organic matter.** Plant and animal residue in the soil in various stages of decomposition. The content of organic matter in the surface layer is described as follows:



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Very low .....	less than 0.5 percent
Low .....	0.5 to 1.0 percent
Moderately low .....	1.0 to 2.0 percent
Moderate .....	2.0 to 4.0 percent
High .....	4.0 to 8.0 percent
Very high .....	more than 8.0 percent

**Paleozoic.** The geologic era between the Precambrian and Mesozoic; it covers the period between 600 million years ago and 230 million years ago and was characterized by the development of the first fishes, amphibians, reptiles, and land plants.

**Pan.** A compact, dense layer in a soil that impedes the movement of water and the growth of roots. For example, *hardpan*, *fragipan*, *claypan*, *plowpan*, and *traffic pan*.

**Paralithic contact.** A boundary between soil and continuous, coherent underlying material. The mineral material below the contact has a hardness of less than 3 (Mohs scale) and can be dug with difficulty with a spade.

**Parent material.** The unconsolidated organic and mineral material in which soil forms.

**Ped.** An individual natural soil aggregate, such as a granule, a prism, or a block.

**Pedisediment.** A thin layer of alluvial material that mantles an erosion surface and has been transported to its present position from higher-lying areas of the erosion surface.

**Pedon.** The smallest volume that can be called “a soil.” A pedon is three dimensional and large enough to permit study of all horizons. Its area ranges from about 10 to 100 square feet (1 square meter to 10 square meters), depending on the variability of the soil.

**Percolation.** The movement of water through the soil.

**Percs slowly (in tables).** The slow movement of water through the soil adversely affects the specified use.

**Perennial stream.** A creek or stream that has flowing water throughout the year.

**Permeability.** The quality of the soil that enables water or air to move downward through the profile. The rate at which a saturated soil transmits water is accepted as a measure of this quality. In soil physics, the rate is referred to as “saturated hydraulic conductivity,” which is defined in the “Soil Survey Manual.” In line with conventional usage in the engineering profession and with traditional usage in published soil surveys, this rate of flow continues to be expressed as “permeability.” Terms describing permeability, measured in inches per hour, are as follows:

Extremely slow .....	0.0 to 0.01 inch
Very slow .....	0.01 to 0.06 inch
Slow .....	0.06 to 0.2 inch
Moderately slow .....	0.2 to 0.6 inch
Moderate .....	0.6 inch to 2.0 inches
Moderately rapid .....	2.0 to 6.0 inches
Rapid .....	6.0 to 20 inches
Very rapid .....	more than 20 inches

**Phase, soil.** A subdivision of a soil series based on features that affect its use and management, such as slope, stoniness, and flooding.

**pH value.** A numerical designation of acidity and alkalinity in soil. (See Reaction, soil.)

**Piping (in tables).** Formation of subsurface tunnels or pipelike cavities by water moving through the soil.

**Plasticity index.** The numerical difference between the liquid limit and the plastic limit; the range of moisture content within which the soil remains plastic.

**Plastic limit.** The moisture content at which a soil changes from semisolid to plastic.

**Pliocene.** The fifth and last epoch of the Tertiary period (Cenozoic era) of geologic

time extending from the Miocene epoch (about 13 million years ago) to the beginning of the Pleistocene epoch of the Quarternary period (about 1.8 million years ago).

**Plinthite.** The sesquioxide-rich, humus-poor, highly weathered mixture of clay with quartz and other diluents. It commonly appears as red mottles, usually in platy, polygonal, or reticulate patterns. Plinthite changes irreversibly to an ironstone hardpan or to irregular aggregates on repeated wetting and drying, especially if it is exposed also to heat from the sun. In a moist soil, plinthite can be cut with a spade. It is a form of laterite.

**Plowpan.** A compacted layer formed in the soil directly below the plowed layer.

**Ponding.** Standing water on soils in closed depressions. Unless the soils are artificially drained, the water can be removed only by percolation or evapotranspiration.

**Poorly graded.** Refers to a coarse-grained soil or soil material consisting mainly of particles of nearly the same size. Because there is little difference in size of the particles, density can be increased only slightly by compaction.

**Poor filter (in tables).** Because of rapid or very rapid permeability, the soil may not adequately filter effluent from a waste disposal system.

**Prescribed burning.** Deliberately burning an area for specific management purposes, under the appropriate conditions of weather and soil moisture and at the proper time of day.

**Productivity, soil.** The capability of a soil for producing a specified plant or sequence of plants under specific management.

**Profile, soil.** A vertical section of the soil extending through all its horizons and into the parent material.

**Proper grazing use.** Grazing at an intensity that maintains enough cover to protect the soil and maintain or improve the quantity and quality of the desirable vegetation. This practice increases the vigor and reproduction capacity of the key plants and promotes the accumulation of litter and mulch necessary to conserve soil and water.

**Quaternary.** The second period of the Cenozoic era of geologic time, extending from the end of the Tertiary period (about 1.8 million years ago) to the present.

**Reaction, soil.** A measure of acidity or alkalinity of a soil, expressed in pH values. A soil that tests to pH 7.0 is described as precisely neutral in reaction because it is neither acid nor alkaline. The degrees of acidity or alkalinity, expressed as pH values, are:

Ultra acid .....	less than 3.5
Extremely acid .....	3.5 to 4.4
Very strongly acid .....	4.5 to 5.0
Strongly acid .....	5.1 to 5.5
Moderately acid .....	5.6 to 6.0
Slightly acid .....	6.1 to 6.5
Neutral .....	6.6 to 7.3
Slightly alkaline .....	7.4 to 7.8
Moderately alkaline .....	7.9 to 8.4
Strongly alkaline .....	8.5 to 9.0
Very strongly alkaline .....	9.1 and higher

**Redoximorphic concentrations.** Nodules, concretions, soft masses, pore linings, and other features resulting from the accumulation of iron or manganese oxide. An indication of chemical reduction and oxidation resulting from saturation.

**Redoximorphic depletions.** Low-chroma zones from which iron and manganese oxide or a combination of iron and manganese oxide and clay has been removed.

These zones are indications of the chemical reduction of iron resulting from saturation.

**Redoximorphic features.** Redoximorphic concentrations, redoximorphic depletions, reduced matrices, a positive reaction to alpha,alpha-dipyridyl, and other features indicating the chemical reduction and oxidation of iron and manganese compounds resulting from saturation.

**Reduced matrix.** A soil matrix that has low chroma in situ because of chemically reduced iron (Fe II). The chemical reduction results from nearly continuous wetness. The matrix undergoes a change in hue or chroma within 30 minutes after exposure to air as the iron is oxidized (Fe III). A type of redoximorphic feature.

**Regolith.** The unconsolidated mantle of weathered rock and soil material on the earth's surface; the loose earth material above the solid rock.

**Relief.** The elevations or inequalities of a land surface, considered collectively.

**Residuum (residual soil material).** Unconsolidated, weathered or partly weathered mineral material that accumulated as consolidated rock disintegrated in place.

**Rill.** A steep-sided channel resulting from accelerated erosion. A rill generally is a few inches deep and not wide enough to be an obstacle to farm machinery.

**Road cut.** A sloping surface produced by mechanical means during road construction. It is commonly on the uphill side of the road.

**Rock fragments.** Rock or mineral fragments having a diameter of 2 millimeters or more; for example, pebbles, cobbles, stones, and boulders.

**Rooting depth (in tables).** Shallow root zone. The soil is shallow over a layer that greatly restricts roots.

**Root zone.** The part of the soil that can be penetrated by plant roots.

**Runoff.** The precipitation discharged into stream channels from an area. The water that flows off the surface of the land without sinking into the soil is called surface runoff. Water that enters the soil before reaching surface streams is called ground-water runoff or seepage flow from ground water.

**Sand.** As a soil separate, individual rock or mineral fragments ranging from 0.05 millimeter to 2.0 millimeters in diameter. Most sand grains consist of quartz. As a soil textural class, a soil that is 85 percent or more sand and not more than 10 percent clay.

**Sandstone.** Sedimentary rock containing dominantly sand-sized particles.

**Saturated hydraulic conductivity** refers to the ability of a soil to transmit water or air. The term "permeability," as used in soil surveys, indicates saturated hydraulic conductivity ( $K_{sat}$ ). The estimates in the table indicate the rate of water movement, in micrometers per second (um/sec), when the soil is saturated. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Permeability is considered in the design of soil drainage systems and septic tank absorption fields.

Very low .....	less than 0.01 um/sec
Low .....	0.01 to 0.1
Moderately low .....	0.1 to 1
Moderately high .....	1 to 10
High .....	10 to 100
Very high .....	more than 100

**Saturation.** Wetness characterized by zero or positive pressure of the soil water. Under conditions of saturation, the water will flow from the soil matrix into an unlined auger hole.

**Second bottom.** The first terrace above the normal flood plain (or first bottom) of a river.

**Sedimentary rock.** Rock made up of particles deposited from suspension in water. The chief kinds of sedimentary rock are conglomerate, formed from gravel;

sandstone, formed from sand; shale, formed from clay; and limestone, formed from soft masses of calcium carbonate. There are many intermediate types. Some wind-deposited sand is consolidated into sandstone.

**Seepage (in tables).** The movement of water through the soil. Seepage adversely affects the specified use.

**Sequum.** A sequence consisting of an illuvial horizon and the overlying eluvial horizon. (See Eluviation.)

**Series, soil.** A group of soils that have profiles that are almost alike, except for differences in texture of the surface layer. All the soils of a series have horizons that are similar in composition, thickness, and arrangement.

**Shale.** Sedimentary rock formed by the hardening of a clay deposit.

**Sheet erosion.** The removal of a fairly uniform layer of soil material from the land surface by the action of rainfall and surface runoff.

**Shoulder.** The position that forms the uppermost inclined surface near the top of a hillslope. It is a transition from backslope to summit. The surface is dominantly convex in profile and erosional in origin.

**Shrink-swell (in tables).** The shrinking of soil when dry and the swelling of soil when wet. Shrinking and swelling can damage roads, dams, building foundations, and other structures. It can also damage plant roots.

**Side slope.** A geomorphic component of hills consisting of a laterally planar area of a hillside. The overland waterflow is predominantly parallel.

**Silica.** A combination of silicon and oxygen. The mineral form is called quartz.

**Silt.** As a soil separate, individual mineral particles that range in diameter from the upper limit of clay (0.002 millimeter) to the lower limit of very fine sand (0.05 millimeter). As a soil textural class, soil that is 80 percent or more silt and less than 12 percent clay.

**Siltstone.** Sedimentary rock made up of dominantly silt-sized particles.

**Similar soils.** Soils that share limits of diagnostic criteria, behave and perform in a similar manner, and have similar conservation needs or management requirements for the major land uses in the survey area.

**Sinkhole.** A depression in the landscape where limestone has been dissolved.

**Site index.** A designation of the quality of a forest site based on the height of the dominant stand at an arbitrarily chosen age. For example, if the average height attained by dominant and codominant trees in a fully stocked stand at the age of 50 years is 75 feet, the site index is 75.

**Slickensides.** Polished and grooved surfaces produced by one mass sliding past another. In soils, slickensides may occur at the bases of slip surfaces on the steeper slopes; on faces of blocks, prisms, and columns; and in swelling clayey soils, where there is marked change in moisture content.

**Slope.** The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance. In this survey, classes for simple slopes are as follows:

Nearly level .....	0 to 2 percent
Gently sloping .....	2 to 6 percent
Sloping .....	6 to 12 percent
Moderately steep .....	12 to 20 percent
Steep .....	20 to 30 percent
Very steep .....	30 to 70 percent

Classes for complex slopes are as follows:

Nearly level .....	0 to 2 percent
Undulating .....	2 to 6 percent
Rolling .....	6 to 12 percent

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Hilly .....	12 to 20 percent
Steep .....	20 to 30 percent
Very steep .....	30 percent and higher

**Slope (in tables).** Slope is great enough that special practices are required to ensure satisfactory performance of the soil for a specific use.

**Small stones (in tables).** Rock fragments less than 3 inches (7.6 centimeters) in diameter. Small stones adversely affect the specified use of the soil.

**Soft bedrock.** Bedrock that can be excavated with trenching machines, backhoes, small rippers, and other equipment commonly used in construction.

**Soil.** A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief over periods of time.

**Soil separates.** Mineral particles less than 2 millimeters in equivalent diameter and ranging between specified size limits. The names and sizes, in millimeters, of separates recognized in the United States are as follows:

Very coarse sand .....	2.0 to 1.0
Coarse sand .....	1.0 to 0.5
Medium sand .....	0.5 to 0.25
Fine sand .....	0.25 to 0.10
Very fine sand .....	0.10 to 0.05
Silt .....	0.05 to 0.002
Clay .....	less than 0.002

**Solum.** The upper part of a soil profile, above the C horizon, in which the processes of soil formation are active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the material below the solum. The living roots and plant and animal activities are largely confined to the solum.

**Stones.** Rock fragments 10 to 24 inches (25 to 60 centimeters) in diameter if rounded or 15 to 24 inches (38 to 60 centimeters) in length if flat.

**Stony.** Refers to a soil containing stones in numbers that interfere with or prevent tillage.

**Stratified.** Arranged in layers (strata). The term refers to geologic material. Layers in soils that result from soil formation processes are called horizons; those inherited from the parent material are called strata.

**Stripcropping.** Growing crops in a systematic arrangement of strips or bands that provide vegetative barriers to wind erosion and water erosion.

**Structure, soil.** The arrangement of primary soil particles into compound particles or aggregates. The principal forms of soil structure are—*platy* (laminated), *prismatic* (vertical axis of aggregates longer than horizontal), *columnar* (prisms with rounded tops), *blocky* (angular or subangular), and *granular*. *Structureless* soils are either *single grained* (each grain by itself, as in dune sand) or *massive* (the particles adhering without any regular cleavage, as in many hardpans).

**Stubble mulch.** Stubble or other crop residue left on the soil or partly worked into the soil. It protects the soil from wind erosion and water erosion after harvest, during preparation of a seedbed for the next crop, and during the early growing period of the new crop.

**Subsoil.** Technically, the B horizon; roughly, the part of the solum below plow depth.

**Subsoiling.** Tilling a soil below normal plow depth, ordinarily to shatter a hardpan or claypan.

**Substratum.** The part of the soil below the solum.

**Subsurface layer.** Any surface soil horizon (A, E, AB, or EB) below the surface layer.

**Summer fallow.** The tillage of uncropped land during the summer to control weeds

and allow storage of moisture in the soil for the growth of a later crop. A practice common in semiarid regions, where annual precipitation is not enough to produce a crop every year. Summer fallow is frequently practiced before planting winter grain.

**Summit.** The topographically highest position of a hillslope. It has a nearly level (planar or only slightly convex) surface.

**Surface layer.** The soil ordinarily moved in tillage, or its equivalent in uncultivated soil, ranging in depth from 4 to 10 inches (10 to 25 centimeters). Frequently designated as the “plow layer,” or the “Ap horizon.”

**Surface soil.** The A, E, AB, and EB horizons, considered collectively. It includes all subdivisions of these horizons.

**Taxadjuncts.** Soils that cannot be classified in a series recognized in the classification system. Such soils are named for a series they strongly resemble and are designated as taxadjuncts to that series because they differ in ways too small to be of consequence in interpreting their use and behavior. Soils are recognized as taxadjuncts only when one or more of their characteristics are slightly outside the range defined for the family of the series for which the soils are named.

**Terrace.** An embankment, or ridge, constructed across sloping soils on the contour or at a slight angle to the contour. The terrace intercepts surface runoff so that water soaks into the soil or flows slowly to a prepared outlet. A terrace in a field generally is built so that the field can be farmed. A terrace intended mainly for drainage has a deep channel that is maintained in permanent sod.

**Terrace (geologic).** An old alluvial plain, ordinarily flat or undulating, bordering a river, a lake, or the sea.

**Tertiary.** The first period of the Cenozoic era of geologic time, following the Mesozoic era and preceding the Quarternary period (beginning approximately 63 million years ago and ending about 1.8 million years ago).

**Texture, soil.** The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are *sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, and clay*. The sand, loamy sand, and sandy loam classes may be further divided by specifying “coarse,” “fine,” or “very fine.”

**Thin layer (in tables).** Otherwise suitable soil material that is too thin for the specified use.

**Tilth, soil.** The physical condition of the soil as related to tillage, seedbed preparation, seedling emergence, and root penetration.

**Toeslope.** The position that forms the gently inclined surface at the base of a hillslope. Toeslopes in profile are commonly gentle and linear and are constructional surfaces forming the lower part of a hillslope continuum that grades to valley or closed-depression floors.

**Topography.** The general configuration of a land surface or any part of the earth’s surface, including its relief and the position of its natural and constructed features.

**Topsoil.** The upper part of the soil, which is the most favorable material for plant growth. It is ordinarily rich in organic matter and is used to topdress roadbanks, lawns, and land affected by mining.

**Trace elements.** Chemical elements, for example, zinc, cobalt, manganese, copper, and iron, in soils in extremely small amounts. They are essential to plant growth.

**Upland.** Land at a higher elevation, in general, than the alluvial plain or stream terrace; land above the lowlands along streams.

**Valley.** An elongated, relatively large, externally drained depression of the earth’s surface that is primarily developed by soil erosion.

**Variegation.** Refers to patterns of contrasting colors assumed to be inherited from the parent material rather than to be the result of poor drainage.

**Water bars.** Smooth, shallow ditches or depressional areas that are excavated at an



angle across a sloping road. They are used to reduce the downward velocity of water and divert it off and away from the road surface. Water bars can easily be driven over if constructed properly.

**Weathering.** All physical and chemical changes produced in rocks or other deposits at or near the earth's surface by atmospheric agents. These changes result in disintegration and decomposition of the material.

**Well graded.** Refers to soil material consisting of coarse-grained particles that are well distributed over a wide range in size or diameter. Such soil normally can be easily increased in density and bearing properties by compaction. Contrasts with poorly graded soil.

**Wilting point (or permanent wilting point).** The moisture content of soil, on an oven-dry basis, at which a plant (specifically a sunflower) wilts so much that it does not recover when placed in a humid, dark chamber.

**Windthrow.** The uprooting and tipping over of trees by the wind.





## Tables

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# Soil Survey of Jefferson County, Kentucky

Table 1.--Temperature and Precipitation  
(Recorded in the period 1961-90 at Louisville, Kentucky)

Month	Temperature						Precipitation				
	Average daily maximum	Average daily minimum	Average daily	2 years in 10 will have--		Average number of growing degree days*	Average	2 years in 10 will have--		Average number of days with 0.10 inch or more	Average snow- fall
				Maximum temp. higher than--	Minimum temp. lower than--			Less than--	More than--		
	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>Units</u>	<u>In</u>	<u>In</u>	<u>In</u>		<u>In</u>
January--	40.3	23.2	31.7	69	-8	51	2.86	1.43	4.10	5	5.9
February--	44.8	26.5	35.7	73	1	74	3.30	1.59	4.78	5	5.0
March----	56.4	36.2	46.3	83	14	248	4.66	2.53	6.54	8	3.1
April----	67.3	45.4	56.3	87	24	492	4.23	2.13	6.06	7	0.2
May-----	76.0	54.7	65.3	90	36	785	4.62	2.66	6.36	7	0.0
June-----	84.0	63.4	73.7	95	47	1,011	3.46	1.85	4.88	6	0.0
July-----	87.5	67.9	77.7	98	53	1,168	4.51	2.54	6.26	6	0.0
August---	86.2	66.3	76.3	98	52	1,124	3.54	2.14	4.79	6	0.0
September	79.8	59.4	69.5	94	40	888	3.16	1.70	4.45	5	0.0
October--	68.7	46.6	57.6	87	28	547	2.71	1.35	3.89	5	0.0
November-	56.3	38.0	47.2	79	17	250	3.70	2.15	5.09	6	1.0
December-	45.1	28.6	36.9	70	2	93	3.64	1.91	5.16	6	2.2
Yearly: Average	66.0	46.4	56.2	---	---	---	---	---	---	---	---
Extreme	103	-20	---	99	-9	---	---	---	---	---	---
Total--	---	---	---	---	---	6,733	44.41	38.22	50.37	72	17.4

\* A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (40 degrees F).

# Soil Survey of Jefferson County, Kentucky

Table 2.—Freeze Dates in Spring and Fall  
(Recorded in the period 1961-90 at Louisville, Kentucky)

Probability	Temperature		
	24 °F or lower	28 °F or lower	32 °F or lower
Last freezing temperature in spring:			
1 year in 10 later than--	Mar. 31	Apr. 12	Apr. 25
2 years in 10 later than--	Mar. 25	Apr. 7	Apr. 20
5 years in 10 later than--	Mar. 16	Mar. 27	Apr. 9
First freezing temperature in fall:			
1 year in 10 earlier than--	Nov. 3	Oct. 23	Oct. 13
2 years in 10 earlier than--	Nov. 8	Oct. 28	Oct. 19
5 years in 10 earlier than-	Nov. 19	Nov. 8	Oct. 29

Table 3.—Growing Season  
(Recorded in the period 1961-90 at Louisville, Kentucky)

Probability	Daily minimum temperature during growing season		
	Higher than 24 °F	Higher than 28 °F	Higher than 32 °F
	<u>Days</u>	<u>Days</u>	<u>Days</u>
9 years in 10	226	203	177
8 years in 10	233	211	185
5 years in 10	247	224	202
2 years in 10	260	238	218
1 year in 10	268	246	227

# Soil Survey of Jefferson County, Kentucky

Table 4.—Acreage and Proportionate Extent of the Soils

Map symbol	Soil name	Acres	Percent
AfB	Alford silt loam, 2 to 6 percent slopes-----	53	*
AfC	Alford silt loam, 6 to 12 percent slopes-----	301	0.1
AfD	Alford silt loam, 12 to 25 percent slopes-----	116	*
AfF	Alford silt loam, 25 to 50 percent slopes-----	109	*
BeB	Beasley silt loam, 2 to 6 percent slopes-----	2,393	0.9
BeC	Beasley silt loam, 6 to 12 percent slopes-----	6,458	2.5
BeD	Beasley silt loam, 12 to 25 percent slopes-----	1,206	0.5
Bo	Boonewood silt loam, occasionally flooded-----	2,532	1.0
CaB2	Caneyville silt loam, 2 to 6 percent slopes, eroded, very rocky-----	487	0.2
CaC2	Caneyville silt loam, 6 to 12 percent slopes, eroded, very rocky-----	1,044	0.4
CaD2	Caneyville silt loam, 12 to 25 percent slopes, eroded, very rocky-----	1,969	0.8
CcF2	Caneyville-Rock outcrop complex, 12 to 60 percent slopes, eroded-----	2,440	1.0
CeF	Carpenter silt loam, 20 to 50 percent slopes-----	6,718	2.6
Cm	Cemeteries-----	1,170	0.5
CnF	Chagrin-Nelse-Wheeling complex, 2 to 75 percent slopes, frequently flooded-----	661	0.3
Co	Combs fine sandy loam, occasionally flooded-----	204	*
CrA	Crider silt loam, 0 to 2 percent slopes-----	733	0.3
CrB	Crider silt loam, 2 to 6 percent slopes-----	7,061	2.8
CrC	Crider silt loam, 6 to 12 percent slopes-----	2,658	1.0
CrD	Crider silt loam, 12 to 20 percent slopes-----	900	0.4
DAM	Dam, large-----	79	*
Dp	Dumps, ash-----	668	0.3
EkA	Elk silt loam, 0 to 2 percent slopes-----	56	*
EkB	Elk silt loam, 2 to 6 percent slopes-----	180	*
EkC	Elk silt loam, 6 to 12 percent slopes-----	66	*
EkD	Elk silt loam, 12 to 25 percent slopes-----	23	*
EoA	Elk silt loam, 0 to 2 percent slopes, occasionally flooded-----	369	0.1
EoB	Elk silt loam, 2 to 6 percent slopes, occasionally flooded-----	611	0.2
EoC	Elk silt loam, 6 to 12 percent slopes, occasionally flooded-----	127	*
FaC	Faywood silt loam, 6 to 12 percent slopes-----	451	0.2
FaD	Faywood silt loam, 12 to 25 percent slopes-----	2,633	1.0
FeC3	Faywood silty clay loam, 6 to 12 percent slopes, severely eroded-----	202	*
FeD3	Faywood silty clay loam, 12 to 25 percent slopes, severely eroded-----	852	0.3
FsF	Faywood-Shrouts-Beasley complex, 25 to 50 percent slopes-----	5,299	2.1
GpD	Gilpin silt loam, 12 to 25 percent slopes-----	653	0.3
GwF	Gilpin-Weikert complex, 25 to 60 percent slopes-----	1,337	0.5
Ha	Huntington silt loam, occasionally flooded-----	153	*
Hf	Huntington silt loam, frequently flooded-----	378	0.1
LaA	Lawrence silt loam, 0 to 2 percent slopes-----	753	0.3
LaB	Lawrence silt loam, 2 to 6 percent slopes-----	508	0.2
LbA	Lawrence silt loam, 0 to 2 percent slopes, occasionally flooded-----	203	*
LbB	Lawrence silt loam, 2 to 6 percent slopes, occasionally flooded-----	175	*
Ld	Lindside silt loam, occasionally flooded-----	1,420	0.6
Ln	Lindside silt loam, frequently flooded-----	40	*
Me	Melvin silt loam, occasionally flooded-----	1,066	0.4
Mf	Melvin silt loam, frequently flooded-----	467	0.2
Ne	Newark silt loam, occasionally flooded-----	1,445	0.6
Nf	Newark silt loam, frequently flooded-----	139	*
NnA	Nicholson silt loam, 0 to 2 percent slopes-----	304	0.1
NnB	Nicholson silt loam, 2 to 6 percent slopes-----	5,919	2.3
NnC	Nicholson silt loam, 6 to 12 percent slopes-----	744	0.3
No	Nolin silt loam, occasionally flooded-----	4,170	1.6
OtA	Otwood silt loam, 0 to 2 percent slopes-----	398	0.2
OtB	Otwood silt loam, 2 to 6 percent slopes-----	1,355	0.5
OtC	Otwood silt loam, 6 to 12 percent slopes-----	314	0.1
OwA	Otwood silt loam, 0 to 2 percent slopes, occasionally flooded-----	160	*
OwB	Otwood silt loam, 2 to 6 percent slopes, occasionally flooded-----	544	0.2
OwC	Otwood silt loam, 6 to 12 percent slopes, occasionally flooded-----	65	*
Pa	Patton silt loam, ponded-----	50	*

See footnote at end of table.

# Soil Survey of Jefferson County, Kentucky

Table 4.—Acreage and Proportionate Extent of the Soils—Continued

Map symbol	Soil name	Acres	Percent
Pt	Pits, quarries-----	1,106	0.4
RoA	Robertsville silt loam, 0 to 2 percent slopes-----	1,452	0.6
RpA	Robertsville silt loam, 0 to 2 percent slopes, ponded-----	297	0.1
SaB	Sandview silt loam, 2 to 6 percent slopes-----	963	0.4
SaC	Sandview silt loam, 6 to 12 percent slopes-----	180	*
ScA	Sciotoville silt loam, 0 to 2 percent slopes-----	850	0.3
ScB	Sciotoville silt loam, 2 to 6 percent slopes-----	372	0.1
ScC	Sciotoville silt loam, 6 to 12 percent slopes-----	49	*
SdA	Sciotoville silt loam, 0 to 2 percent slopes, occasionally flooded-----	42	*
SdB	Sciotoville silt loam, 2 to 6 percent slopes, occasionally flooded-----	39	*
ShC3	Shrouts silt loam, 6 to 12 percent slopes, severely eroded-----	3,495	1.4
ShD3	Shrouts silt loam, 12 to 25 percent slopes, severely eroded, very rocky--	9,344	3.7
TjB	Tilsit silt loam, 2 to 6 percent slopes-----	375	0.1
TjC	Tilsit silt loam, 6 to 12 percent slopes-----	1,235	0.5
TjD	Tilsit silt loam, 12 to 25 percent slopes-----	2,022	0.8
Ua	Urban land-----	22,409	8.8
UabC	Urban land-Haplic Udarents-Boonewood complex, 0 to 12 percent slopes, rarely flooded-----	114	*
UacB	Urban land-Haplic Udarents-Combs complex, 0 to 6 percent slopes, rarely flooded-----	89	*
UadB	Urban land-Haplic Udarents-Melvin complex, 0 to 6 percent slopes, rarely flooded-----	337	0.1
UaeB	Urban land-Haplic Udarents-Newark complex, 0 to 6 percent slopes, rarely flooded-----	350	0.1
UafC	Urban land-Haplic Udarents-Zipp complex, 0 to 12 percent slopes-----	264	0.1
UagB	Urban land-Udarents complex, wet substratum, 0 to 6 percent slopes, rarely flooded-----	5,148	2.0
UahC	Urban land-Udorthents complex, 0 to 12 percent slopes-----	23,396	9.2
UaiC	Urban land-Udorthents complex, 0 to 12 percent slopes, rarely flooded---	3,250	1.3
UajF	Urban land-Udorthents complex, refuse substratum, 0 to 50 percent slopes-	829	0.3
UakF	Urban land-Udorthents complex, smoothed, 0 to 50 percent slopes-----	7,662	3.0
UamC	Urban land-Ultic Udarents-Tilsit complex, 0 to 12 percent slopes-----	719	0.3
UbC	Urban land-Alfic Udarents complex, loamy substratum, 0 to 12 percent slopes-----	11,021	4.3
UbD	Urban land-Alfic Udarents complex, loamy substratum, 12 to 25 percent slopes-----	54	*
UcC	Urban land-Alfic Udarents complex, loamy substratum-over hard bedrock, 0 to 12 percent slopes-----	655	0.3
UcF	Urban land-Alfic Udarents complex, loamy substratum-over hard bedrock, 12 to 50 percent slopes-----	290	0.1
UdC	Urban land-Alfic Udarents complex, loamy substratum, 0 to 12 percent slopes, rarely flooded-----	293	0.1
UeC	Urban land-Alfic Udarents complex, fragipan substratum-over loamy sediment, 0 to 12 percent slopes-----	4,850	1.9
UfC	Urban land-Alfic Udarents complex, fragipan substratum-over loamy sediment, 0 to 12 percent slopes, rarely flooded-----	19	*
UgC	Urban land-Alfic Udarents complex, fragipan substratum-over soft bedrock, 0 to 12 percent slopes-----	748	0.3
UhC	Urban land-Alfic Udarents complex, fragipan substratum-over hard bedrock, 0 to 12 percent slopes-----	4,662	1.8
UiC	Urban land-Alfic Udarents complex, clayey substratum-over soft bedrock, 0 to 12 percent slopes-----	1,758	0.7
UiD	Urban land-Alfic Udarents complex, clayey substratum-over soft bedrock, 12 to 25 percent slopes-----	867	0.3
UiF	Urban land-Ultic Udarents complex, clayey substratum-over soft bedrock, 25 to 50 percent slopes-----	612	0.2
UjC	Urban land-Alfic Udarents complex, clayey substratum-over hard bedrock, 0 to 12 percent slopes-----	10,931	4.3
UjD	Urban land-Alfic Udarents complex, clayey substratum-over hard bedrock, 12 to 25 percent slopes-----	1,865	0.7

See footnote at end of table.

# Soil Survey of Jefferson County, Kentucky

Table 4.—Acreage and Proportionate Extent of the Soils—Continued

Map symbol	Soil name	Acres	Percent
UjF	Urban land-Alfic Udarents complex, clayey substratum-over hard bedrock, 25 to 60 percent slopes-----	214	*
UkC	Urban land-Alfic Udarents-Beasley complex, 0 to 12 percent slopes-----	1,339	0.5
U1C	Urban land-Alfic Udarents-Caneyville complex, 0 to 12 percent slopes-----	278	0.1
U1D	Urban land-Alfic Udarents-Caneyville complex, 12 to 25 percent slopes----	1,632	0.6
UmC	Urban land-Alfic Udarents-Crider complex, 0 to 12 percent slopes-----	18,780	7.4
UmD	Urban land-Alfic Udarents-Crider complex, 12 to 25 percent slopes-----	1,841	0.7
UnC	Urban land-Alfic Udarents-Elk complex, 0 to 12 percent slopes, rarely flooded-----	149	*
UoC	Urban land-Alfic Udarents-Lawrence complex, 0 to 12 percent slopes-----	2,193	0.9
UpC	Urban land-Alfic Udarents-Lawrence complex, 0 to 12 percent slopes, rarely flooded-----	100	*
UqC	Urban land-Alfic Udarents-Nicholson complex, 0 to 12 percent slopes-----	3,775	1.5
UrC	Urban land-Alfic Udarents-Otwood complex, 0 to 12 percent slopes-----	1,680	0.7
UsC	Urban land-Alfic Udarents-Otwood complex, 0 to 12 percent slopes, rarely flooded-----	108	*
UtC	Urban land-Alfic Udarents-Robertsville complex, 0 to 12 percent slopes---	2,788	1.1
UuC	Urban land-Alfic Udarents-Sandview complex, 0 to 12 percent slopes-----	170	*
UvC	Urban land-Alfic Udarents-Sciotoville complex, 0 to 12 percent slopes----	2,108	0.8
UwC	Urban land-Alfic Udarents-Shrouts complex, 0 to 12 percent slopes-----	227	*
UwD	Urban land-Alfic Udarents-Shrouts complex, 12 to 25 percent slopes-----	764	0.3
UxC	Urban land-Alfic Udarents-Weinbach complex, 0 to 12 percent slopes-----	258	0.1
UyC	Urban land-Alfic Udarents-Wheeling complex, 0 to 12 percent slopes-----	2,656	1.0
UyD	Urban land-Alfic Udarents-Wheeling complex, 12 to 25 percent slopes-----	12	*
UzC	Urban land-Alfic Udarents-Wheeling complex, 0 to 12 percent slopes, rarely flooded-----	247	*
W	Water-----	9,715	3.8
WeA	Weinbach silt loam, 0 to 2 percent slopes-----	408	0.2
WeB	Weinbach silt loam, 2 to 6 percent slopes-----	66	*
WfA	Weinbach silt loam, 0 to 2 percent slopes, occasionally flooded-----	82	*
WfB	Weinbach silt loam, 2 to 6 percent slopes, occasionally flooded-----	7	*
WhA	Wheeling loam, 0 to 2 percent slopes-----	643	0.3
WhB	Wheeling loam, 2 to 6 percent slopes-----	509	0.2
WhC	Wheeling loam, 6 to 12 percent slopes-----	434	0.2
WhD	Wheeling loam, 12 to 25 percent slopes-----	278	0.1
WhF	Wheeling loam, 25 to 55 percent slopes-----	388	0.2
WkA	Wheeling loam, 0 to 2 percent slopes, occasionally flooded-----	127	*
WkB	Wheeling loam, 2 to 6 percent slopes, occasionally flooded-----	227	*
WkC	Wheeling loam, 6 to 12 percent slopes, occasionally flooded-----	133	*
WkD	Wheeling loam, 12 to 25 percent slopes, occasionally flooded-----	315	0.1
WkF	Wheeling loam, 25 to 55 percent slopes, occasionally flooded-----	345	0.1
WoA	Woolper silt loam, 0 to 2 percent slopes, rarely flooded-----	20	*
WoB	Woolper silt loam, 2 to 6 percent slopes, rarely flooded-----	104	*
WoC	Woolper silt loam, 6 to 12 percent slopes, rarely flooded-----	130	*
ZpA	Zipp silty clay, 0 to 2 percent slopes, ponded-----	804	0.3
	Total-----	254,656	100.0

\* Less than 0.1 percent.



# Soil Survey of Jefferson County, Kentucky

Table 5.--Land Capability and Yields per Acre by Map Unit, Part I

(Yields are those that can be expected under a high level of management. They are for nonirrigated areas. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil)

Map symbol and soil name	Land capability	Corn <u>Bu</u>	Soybeans <u>Bu</u>	Tobacco <u>Lbs</u>	Wheat <u>Bu</u>
AfB: Alford-----	2e	150.00	50.00	3,300.00	60.00
AfC: Alford-----	3e	130.00	40.00	3,000.00	45.00
AfD: Alford-----	4e	100.00	35.00	---	40.00
AfF: Alford-----	7e	---	---	---	---
BeB: Beasley-----	2e	115.00	40.00	2,800.00	40.00
BeC: Beasley-----	3e	100.00	30.00	2,600.00	35.00
BeD: Beasley-----	4e	80.00	---	---	30.00
Bo: Boonewood-----	2w	100.00	40.00	2,800.00	40.00
CaB2: Caneyville-----	2e	90.00	30.00	---	40.00
CaC2: Caneyville-----	3e	80.00	---	---	30.00
CaD2: Caneyville-----	6e	---	---	---	---
CcF2: Caneyville-----	7e	---	---	---	---
Rock outcrop-----	8s				
CeF: Carpenter-----	7e	---	---	---	---
Cm. Cemeteries					
CnF: Nelse-----	4e	---	---	---	---
Chagrin-----	4e				
Wheeling-----	7e				
Co: Combs-----	2w	100.00	40.00	2,800.00	40.00
CrA: Crider-----	1	150.00	50.00	3,300.00	60.00
CrB: Crider-----	2e	150.00	50.00	3,300.00	60.00

# Soil Survey of Jefferson County, Kentucky

Table 5.--Land Capability and Yields per Acre by Map Unit, Part I--Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Tobacco	Wheat
		<u>Bu</u>	<u>Bu</u>	<u>Lbs</u>	<u>Bu</u>
CrC: Crider-----	3e	130.00	40.00	3,000.00	45.00
CrD: Crider-----	4e	100.00	35.00	---	40.00
DAM: Dam, large-----	8s	---	---	---	---
Dp: Dumps, ash-----	8s	---	---	---	---
EkA: Elk-----	1	150.00	50.00	3,300.00	60.00
EkB: Elk-----	2e	150.00	50.00	3,300.00	60.00
EkC: Elk-----	3e	130.00	40.00	3,000.00	45.00
EkD: Elk-----	4e	100.00	35.00	---	40.00
EoA: Elk-----	1	140.00	45.00	3,200.00	50.00
EoB: Elk-----	2e	140.00	45.00	3,200.00	50.00
EoC: Elk-----	3e	125.00	35.00	2,900.00	40.00
FaC: Faywood-----	3e	100.00	30.00	2,600.00	40.00
FaD: Faywood-----	4e	85.00	---	---	30.00
FeC3: Faywood-----	4e	75.00	---	---	30.00
FeD3: Faywood-----	6e	---	---	---	---
FsF: Faywood----- Shrouds----- Beasley-----	7e 7e 7e	---	---	---	---
GpD: Gilpin-----	4e	85.00	---	---	30.00
GwF: Gilpin----- Weikert-----	7e 7e	---	---	---	---
Ha: Huntington-----	2w	140.00	45.00	3,200.00	50.00

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part I—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Tobacco	Wheat
		<u>Bu</u>	<u>Bu</u>	<u>Lbs</u>	<u>Bu</u>
Hf: Huntington-----	2w	130.00	40.00	3,000.00	45.00
LaA: Lawrence-----	3w	115.00	30.00	2,800.00	40.00
LaB: Lawrence-----	3w	115.00	30.00	2,800.00	40.00
LbA: Lawrence-----	3w	110.00	25.00	2,600.00	35.00
LbB: Lawrence-----	3w	110.00	25.00	2,600.00	35.00
Ld: Lindside-----	2w	130.00	40.00	3,000.00	45.00
Ln: Lindside-----	2w	125.00	35.00	2,900.00	40.00
Me: Melvin-----	3w	80.00	---	---	30.00
Mf: Melvin-----	3w	70.00	---	---	---
Ne: Newark-----	2w	115.00	30.00	2,800.00	40.00
Nf: Newark-----	2w	100.00	25.00	2,600.00	35.00
NnA: Nicholson-----	2w	130.00	40.00	3,000.00	45.00
NnB: Nicholson-----	2e	130.00	40.00	3,000.00	45.00
NnC: Nicholson-----	3e	120.00	30.00	2,800.00	40.00
No: Nolin-----	2w	140.00	45.00	3,200.00	50.00
OtA: Otwood-----	2w	130.00	40.00	3,000.00	45.00
OtB: Otwood-----	2e	130.00	40.00	3,000.00	45.00
OtC: Otwood-----	3e	120.00	30.00	2,800.00	40.00
OwA: Otwood-----	2w	115.00	30.00	2,800.00	40.00
OwB: Otwood-----	2e	115.00	30.00	2,800.00	40.00

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part I—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Tobacco	Wheat
		<u>Bu</u>	<u>Bu</u>	<u>Lbs</u>	<u>Bu</u>
OwC: Otwood-----	3e	110.00	25.00	2,600.00	35.00
Pa: Patton-----	5w	---	---	---	---
Pt: Pits, quarries-----	8s	---	---	---	---
RoA: Robertsville-----	4w	80.00	---	---	---
RpA: Robertsville-----	5w	---	---	---	---
SaB: Sandview-----	2e	150.00	50.00	3,300.00	60.00
SaC: Sandview-----	3e	130.00	35.00	2,900.00	40.00
ScA: Sciotoville-----	2w	130.00	40.00	3,000.00	45.00
ScB: Sciotoville-----	2e	130.00	40.00	3,000.00	45.00
ScC: Sciotoville-----	3e	120.00	30.00	2,800.00	40.00
SdA: Sciotoville-----	2w	115.00	30.00	2,800.00	40.00
SdB: Sciotoville-----	2e	115.00	30.00	2,800.00	40.00
ShC3: Shrouts-----	6e	75.00	---	---	---
ShD3: Shrouts-----	7e	---	---	---	---
TjB: Tilsit-----	2e	130.00	40.00	3,000.00	45.00
TjC: Tilsit-----	3e	120.00	30.00	2,800.00	40.00
TjD: Tilsit-----	4e	90.00	25.00	---	35.00
Ua. Urban land					
UabC: Urban land. Haplic Udarents. Boonewood-----	2e	---	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 5.--Land Capability and Yields per Acre by Map Unit, Part I--Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Tobacco	Wheat
		<u>Bu</u>	<u>Bu</u>	<u>Lbs</u>	<u>Bu</u>
UacB: Urban land. Haplic Udarents. Combs-----	2w	---	---	---	---
UadB: Urban land. Haplic Udarents. Melvin-----	4w	---	---	---	---
UaeB: Urban land. Haplic Udarents. Newark-----	2w	---	---	---	---
UafC: Urban land. Haplic Udarents. Zipp-----	3e	---	---	---	---
UagB. Urban land-Udarents					
UahC. Urban land-Udorthents					
UaiC. Urban land-Udorthents					
UajF. Udorthents-Urban land					
UakF. Udorthents-Urban land					
UamC: Urban land. Ultic Udarents. Tilsit-----	3e	---	---	---	---
UbC. Urban land-Alfic Udarents					
UbdD. Urban land-Alfic Udarents					
UcC. Urban land-Alfic Udarents					
UcF. Urban land-Alfic Udarents					
UdC. Urban land-Alfic Udarents					

# Soil Survey of Jefferson County, Kentucky

Table 5.-Land Capability and Yields per Acre by Map Unit, Part I--Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Tobacco	Wheat
		<u>Bu</u>	<u>Bu</u>	<u>Lbs</u>	<u>Bu</u>
UeC. Urban land-Alfic Udarents					
UfC. Urban land-Alfic Udarents					
UgC. Urban land-Alfic Udarents					
UhC. Urban land-Alfic Udarents					
UiC. Urban land-Alfic Udarents					
UiD. Urban land-Alfic Udarents					
UiF. Urban land-Ultic Udarents					
UjC. Urban land-Alfic Udarents					
UjD. Urban land-Alfic Udarents					
UjF. Urban land-Alfic Udarents					
UkC: Urban land. Alfic Udarents. Beasley-----	3e	---	---	---	---
Ulc: Urban land. Alfic Udarents. Caneyville-----	3e	---	---	---	---
Uld: Urban land. Alfic Udarents. Caneyville-----	4e	---	---	---	---
UmC: Urban land. Alfic Udarents. Crider-----	3e	---	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part I—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Tobacco	Wheat
		<u>Bu</u>	<u>Bu</u>	<u>Lbs</u>	<u>Bu</u>
UmD: Urban land. Alfic Udarents. Crider-----	4e	---	---	---	---
UnC: Urban land. Alfic Udarents. Elk-----	3e	---	---	---	---
UoC: Urban land. Alfic Udarents. Lawrence-----	3e	---	---	---	---
UpC: Urban land. Alfic Udarents. Lawrence-----	3e	---	---	---	---
UqC: Urban land. Alfic Udarents. Nicholson-----	3e	---	---	---	---
UrC: Urban land. Alfic Udarents. Otwood-----	3e	---	---	---	---
UsC: Urban land. Alfic Udarents. Otwood-----	3e	---	---	---	---
UtC: Urban land. Alfic Udarents. Robertsville-----	5w	---	---	---	---
UuC: Urban land. Alfic Udarents. Sandview-----	3e	---	---	---	---
UvC: Urban land. Alfic Udarents. Sciotoville-----	3e	---	---	---	---
UwC: Urban land. Alfic Udarents. Shrouts-----	3e	---	---	---	---
UwD: Urban land. Alfic Udarents. Shrouts-----	4e	---	---	---	---



# Soil Survey of Jefferson County, Kentucky

Table 5.--Land Capability and Yields per Acre by Map Unit, Part I--Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Tobacco	Wheat
		<u>Bu</u>	<u>Bu</u>	<u>Lbs</u>	<u>Bu</u>
UxC: Urban land. Alfic Udarents. Weinbach-----	3e	---	---	---	---
UyC: Urban land. Alfic Udarents. Wheeling-----	3e	---	---	---	---
UyD: Urban land. Alfic Udarents. Wheeling-----	4e	---	---	---	---
UzC: Urban land. Alfic Udarents. Wheeling-----	3e	---	---	---	---
W. Water					
WeA: Weinbach-----	2w	115.00	30.00	2,800.00	40.00
WeB: Weinbach-----	2e	115.00	30.00	2,800.00	40.00
WfA: Weinbach-----	2w	110.00	25.00	2,600.00	35.00
WfB: Weinbach-----	2e	110.00	25.00	2,600.00	35.00
WhA: Wheeling-----	1	130.00	40.00	3,000.00	45.00
WhB: Wheeling-----	2e	130.00	40.00	3,000.00	45.00
WhC: Wheeling-----	3e	120.00	30.00	2,800.00	40.00
WhD: Wheeling-----	4e	100.00	25.00	---	35.00
WhF: Wheeling-----	7e	---	---	---	---
WkA: Wheeling-----	1	120.00	35.00	2,800.00	40.00
WkB: Wheeling-----	2e	120.00	35.00	2,800.00	40.00
WkC: Wheeling-----	3e	110.00	30.00	2,600.00	35.00
WkD: Wheeling-----	4e	90.00	25.00	---	30.00

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part I—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Tobacco	Wheat
		<u>Bu</u>	<u>Bu</u>	<u>Lbs</u>	<u>Bu</u>
WkF: Wheeling-----	7e	---	---	---	---
WoA: Woolper-----	1	120.00	30.00	2,800.00	40.00
WoB: Woolper-----	2e	120.00	30.00	2,800.00	40.00
WoC: Woolper-----	3e	115.00	25.00	2,600.00	35.00
ZpA: Zipp-----	5w	---	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part II

(Yields are those that can be expected under a high level of management. They are for nonirrigated areas. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil)

Map symbol and soil name	Land capability	Alfalfa hay	Grass-legume hay	Pasture
		<u>Tons</u>	<u>Tons</u>	<u>AUM</u>
AfB: Alford-----	2e	6.50	5.50	11.00
AfC: Alford-----	3e	5.50	4.50	9.00
AfD: Alford-----	4e	4.50	3.50	7.00
AfF: Alford-----	7e	---	---	---
BeB: Beasley-----	2e	5.00	4.00	8.00
BeC: Beasley-----	3e	4.50	3.50	7.00
BeD: Beasley-----	4e	3.50	2.50	5.50
Bo: Boonewood-----	2w	---	3.50	7.00
CaB2: Caneyville-----	2e	---	3.00	6.00
CaC2: Caneyville-----	3e	---	2.50	5.00
CaD2: Caneyville-----	6e	---	2.00	4.50
CcF2: Caneyville-----	7e	---	---	---
Rock outcrop-----	8s			
CeF: Carpenter-----	7e	---	---	---
Cm. Cemeteries				
CnF: Nelise-----	4e	---	---	---
Chagrin-----	4e			
Wheeling-----	7e			
Co: Combs-----	2w	4.50	3.50	7.00
CrA: Crider-----	1	6.50	5.50	11.00
CrB: Crider-----	2e	6.50	5.50	11.00

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part II—Continued

Map symbol and soil name	Land capability	Alfalfa hay	Grass-legume hay	Pasture
		<u>Tons</u>	<u>Tons</u>	<u>AUM</u>
CrC: Crider-----	3e	5.50	4.50	9.00
CrD: Crider-----	4e	4.50	3.50	7.00
DAM: Dam, large-----	8s	---	---	---
Dp: Dumps, ash-----	8s	---	---	---
EkA: Elk-----	1	6.50	5.50	11.00
EkB: Elk-----	2e	6.50	5.50	11.00
EkC: Elk-----	3e	5.50	4.50	9.00
EkD: Elk-----	4e	4.50	3.50	7.00
EoA: Elk-----	1	6.00	5.00	10.00
EoB: Elk-----	2e	6.00	5.00	10.00
EoC: Elk-----	3e	5.00	4.00	8.00
FaC: Faywood-----	3e	---	3.00	6.00
FaD: Faywood-----	4e	---	2.50	5.50
FeC3: Faywood-----	4e	---	2.50	5.00
FeD3: Faywood-----	6e	---	---	2.00
FsF: Faywood----- Shrouts----- Beasley-----	7e 7e 7e	---	---	---
GpD: Gilpin-----	4e	---	3.00	6.00
GwF: Gilpin----- Weikert-----	7e 7e	---	---	---
Ha: Huntington-----	2w	6.00	5.00	10.00

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part II—Continued

Map symbol and soil name	Land capability	Alfalfa hay	Grass-legume hay	Pasture
		<u>Tons</u>	<u>Tons</u>	<u>AUM</u>
Hf: Huntington-----	2w	5.50	4.50	9.00
LaA: Lawrence-----	3w	---	4.00	8.00
LaB: Lawrence-----	3w	---	4.00	8.00
LbA: Lawrence-----	3w	---	3.50	7.00
LbB: Lawrence-----	3w	---	3.50	7.00
Ld: Lindside-----	2w	5.50	4.50	9.00
Ln: Lindside-----	2w	5.00	4.00	8.00
Me: Melvin-----	3w	---	2.50	5.50
Mf: Melvin-----	3w	---	2.00	4.50
Ne: Newark-----	2w	---	4.00	8.00
Nf: Newark-----	2w	---	3.50	7.00
NnA: Nicholson-----	2w	---	4.50	9.00
NnB: Nicholson-----	2e	---	4.50	9.00
NnC: Nicholson-----	3e	---	4.00	8.00
No: Nolin-----	2w	6.00	5.00	10.00
OtA: Otwood-----	2w	---	4.50	9.00
OtB: Otwood-----	2e	---	4.50	9.00
OtC: Otwood-----	3e	---	4.00	8.00
OwA: Otwood-----	2w	---	4.00	8.00
OwB: Otwood-----	2e	---	4.00	8.00

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part II—Continued

Map symbol and soil name	Land capability	Alfalfa hay	Grass-legume hay	Pasture
		<u>Tons</u>	<u>Tons</u>	<u>AUM</u>
OwC: Otwood-----	3e	---	3.50	7.00
Pa: Patton-----	5w	---	---	4.50
Pt: Pits, quarries-----	8s	---	---	---
RoA: Robertsville-----	4w	---	2.50	5.50
RpA: Robertsville-----	5w	---	---	4.50
SaB: Sandview-----	2e	6.50	5.50	11.00
SaC: Sandview-----	3e	5.50	4.50	9.00
ScA: Sciotoville-----	2w	---	4.50	9.00
ScB: Sciotoville-----	2e	---	4.50	9.00
ScC: Sciotoville-----	3e	---	4.00	8.00
SdA: Sciotoville-----	2w	---	4.00	8.00
SdB: Sciotoville-----	2e	---	4.00	8.00
ShC3: Shrouts-----	6e	---	2.50	5.00
ShD3: Shrouts-----	7e	---	---	---
TjB: Tilsit-----	2e	---	4.50	9.00
TjC: Tilsit-----	3e	---	4.00	8.00
TjD: Tilsit-----	4e	---	3.00	6.50
Ua. Urban land				
UabC: Urban land. Haplic Udarents. Boonewood-----	2e	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part II—Continued

Map symbol and soil name	Land capability	Alfalfa hay	Grass-legume hay	Pasture
		<u>Tons</u>	<u>Tons</u>	<u>AUM</u>
UacB: Urban land. Haplic Udarents. Combs-----	2w	---	---	---
UadB: Urban land. Haplic Udarents. Melvin-----	4w	---	---	---
UaeB: Urban land. Haplic Udarents. Newark-----	2w	---	---	---
UafC: Urban land. Haplic Udarents. Zipp-----	3e	---	---	---
UagB. Urban land-Udarents				
UahC. Urban land-Udorthents				
UaiC. Urban land-Udorthents				
UajF. Udorthents-Urban land				
UakF. Urban land-Udorthents				
UamC: Urban land. Ultic Udarents. Tilsit-----	3e	---	---	---
UbC. Urban land-Alfic Udarents				
UbD. Urban land-Alfic Udarents				
UcC. Urban land-Alfic Udarents				
UcF. Urban land-Alfic Udarents				
UdC. Urban land-Alfic Udarents				



# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part II—Continued

Map symbol and soil name	Land capability	Alfalfa hay	Grass-legume hay	Pasture
		<u>Tons</u>	<u>Tons</u>	<u>AUM</u>
UeC: Urban land-Alfic Udarents				
UfC: Urban land-Alfic Udarents				
UgC: Urban land-Alfic Udarents				
UhC: Urban land-Alfic Udarents				
UiC: Urban land-Alfic Udarents				
UiD: Urban land-Alfic Udarents				
UiF: Urban land-Ultic Udarents				
UjC: Urban land-Alfic Udarents				
UjD: Urban land-Alfic Udarents				
UjF: Urban land-Alfic Udarents				
UkC: Urban land. Alfic Udarents. Beasley-----	3e	---	---	---
UlC: Urban land. Alfic Udarents Caneyville-----	3e	---	---	---
Uld: Urban land. Alfic Udarents. Caneyville-----	4e	---	---	---
UmC: Urban land. Alfic Udarents. Crider-----	3e	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part II—Continued

Map symbol and soil name	Land capability	Alfalfa hay	Grass-legume hay	Pasture
		<u>Tons</u>	<u>Tons</u>	<u>AUM</u>
UmD: Urban land. Alfic Udarents. Crider-----	4e	---	---	---
UnC: Urban land. Alfic Udarents. Elk-----	3e	---	---	---
UoC: Urban land. Alfic Udarents. Lawrence-----	3e	---	---	---
UpC: Urban land. Alfic Udarents. Lawrence-----	3e	---	---	---
UqC: Urban land. Alfic Udarents. Nicholson-----	3e	---	---	---
UrC: Urban land. Alfic Udarents. Otwood-----	3e	---	---	---
UsC: Urban land. Alfic Udarents. Otwood-----	3e	---	---	---
UtC: Urban land. Alfic Udarents. Robertsville-----	5w	---	---	---
UuC: Urban land. Alfic Udarents. Sandview-----	3e	---	---	---
UvC: Urban land. Alfic Udarents. Sciotoville-----	3e	---	---	---
UwC: Urban land. Alfic Udarents. Shrouts-----	3e	---	---	---
UwD: Urban land. Alfic Udarents. Shrouts-----	4e	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part II—Continued

Map symbol and soil name	Land capability	Alfalfa hay	Grass-legume hay	Pasture
		<u>Tons</u>	<u>Tons</u>	<u>AUM</u>
UxC: Urban land. Alfic Udarents. Weinbach-----	3e	---	---	---
UyC: Urban land. Alfic Udarents. Wheeling-----	3e	---	---	---
UyD: Urban land. Alfic Udarents. Wheeling-----	4e	---	---	---
UzC: Urban land. Alfic Udarents. Wheeling-----	3e	---	---	---
W. Water				
WeA: Weinbach-----	2w	---	4.00	8.00
WeB: Weinbach-----	2e	---	4.00	8.00
WfA: Weinbach-----	2w	---	3.50	7.00
WfB: Weinbach-----	2e	---	3.50	7.00
WhA: Wheeling-----	1	5.50	4.50	9.00
WhB: Wheeling-----	2e	5.50	4.50	9.00
WhC: Wheeling-----	3e	5.00	4.00	8.00
WhD: Wheeling-----	4e	4.50	3.50	7.00
WhF: Wheeling-----	7e	---	---	---
WkA: Wheeling-----	1	5.00	4.00	8.00
WkB: Wheeling-----	2e	5.00	4.00	8.00
WkC: Wheeling-----	3e	4.50	3.50	7.00
WkD: Wheeling-----	4e	4.00	3.00	6.50

# Soil Survey of Jefferson County, Kentucky

Table 5.—Land Capability and Yields per Acre by Map Unit, Part II—Continued

Map symbol and soil name	Land capability	Alfalfa hay	Grass-legume hay	Pasture
		<u>Tons</u>	<u>Tons</u>	<u>AUM</u>
WkF: Wheeling-----	7e	---	---	---
WoA: Woolper-----	1	5.00	4.00	8.00
WoB: Woolper-----	2e	5.00	4.00	8.00
WoC: Woolper-----	3e	4.50	3.50	7.50
ZpA: Zipp-----	5w	---	---	4.50

# Soil Survey of Jefferson County, Kentucky

Table 6.—Capability Class and Subclass

Capability class	Capability subclass	Acreage
Unclassified	---	143,531
1	---	1,751
2	e	18,869
2	w	11,562
3	e	20,905
3	w	2,855
4	e	8,483
4	w	1,391
5	w	1,733
6	e	4,878
7	e	20,402
8	s	2,341

# Soil Survey of Jefferson County, Kentucky

Table 7.—Prime Farmland and Farmland of Statewide Importance

(Only the soils considered prime or important farmland are listed. Urban or built-up areas of the soils listed are not considered prime or important farmland. If a soil is prime or important farmland only under certain conditions, the conditions are specified in the "Farmland classification" column)

Map symbol	Map unit name	Farmland classification
AfB	Alford silt loam, 2 to 6 percent slopes	All areas are prime farmland
AfC	Alford silt loam, 6 to 12 percent slopes	Farmland of statewide importance
BeB	Beasley silt loam, 2 to 6 percent slopes	All areas are prime farmland
BeC	Beasley silt loam, 6 to 12 percent slopes	Farmland of statewide importance
Bo	Boonewood silt loam, occasionally flooded	All areas are prime farmland
Co	Combs fine sandy loam, occasionally flooded	All areas are prime farmland
CrA	Crider silt loam, 0 to 2 percent slopes	All areas are prime farmland
CrB	Crider silt loam, 2 to 6 percent slopes	All areas are prime farmland
CrC	Crider silt loam, 6 to 12 percent slopes	Farmland of statewide importance
EkA	Elk silt loam, 0 to 2 percent slopes	All areas are prime farmland
EkB	Elk silt loam, 2 to 6 percent slopes	All areas are prime farmland
EkC	Elk silt loam, 6 to 12 percent slopes	Farmland of statewide importance
EoA	Elk silt loam, 0 to 2 percent slopes, occasionally flooded	All areas are prime farmland
EoB	Elk silt loam, 2 to 6 percent slopes, occasionally flooded	All areas are prime farmland
EoC	Elk silt loam, 6 to 12 percent slopes, occasionally flooded	Farmland of statewide importance
FaC	Faywood silt loam, 6 to 12 percent slopes	Farmland of statewide importance
Ha	Huntington silt loam, occasionally flooded	All areas are prime farmland
Hf	Huntington silt loam, frequently flooded	Prime farmland if protected from flooding or not frequently flooded during the growing season
LaA	Lawrence silt loam, 0 to 2 percent slopes	Prime farmland if drained
LaB	Lawrence silt loam, 2 to 6 percent slopes	Prime farmland if drained
LbA	Lawrence silt loam, 0 to 2 percent slopes, occasionally flooded	Prime farmland if drained
LbB	Lawrence silt loam, 2 to 6 percent slopes, occasionally flooded	Prime farmland if drained
Ld	Lindside silt loam, occasionally flooded	All areas are prime farmland
Ln	Lindside silt loam, frequently flooded	Prime farmland if protected from flooding or not frequently flooded during the growing season
Me	Melvin silt loam, occasionally flooded	Prime farmland if drained
Mf	Melvin silt loam, frequently flooded	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
Ne	Newark silt loam, occasionally flooded	Prime farmland if drained
Nf	Newark silt loam, frequently flooded	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
NnA	Nicholson silt loam, 0 to 2 percent slopes	All areas are prime farmland
NnB	Nicholson silt loam, 2 to 6 percent slopes	All areas are prime farmland
NnC	Nicholson silt loam, 6 to 12 percent slopes	Farmland of statewide importance
No	Nolin silt loam, occasionally flooded	All areas are prime farmland
OtA	Otwood silt loam, 0 to 2 percent slopes	All areas are prime farmland
OtB	Otwood silt loam, 2 to 6 percent slopes	All areas are prime farmland
OtC	Otwood silt loam, 6 to 12 percent slopes	Farmland of statewide importance
OwA	Otwood silt loam, 0 to 2 percent slopes, occasionally flooded	All areas are prime farmland
OwB	Otwood silt loam, 2 to 6 percent slopes, occasionally flooded	All areas are prime farmland
OwC	Otwood silt loam, 6 to 12 percent slopes, occasionally flooded	Farmland of statewide importance
RoA	Robertsville silt loam, 0 to 2 percent slopes	Prime farmland if drained
SaB	Sandview silt loam, 2 to 6 percent slopes	All areas are prime farmland
SaC	Sandview silt loam, 6 to 12 percent slopes	Farmland of statewide importance

# Soil Survey of Jefferson County, Kentucky

Table 7.—Prime Farmland and Farmland of Statewide Importance—Continued

Map symbol	Map unit name	Farmland classification
ScA	Sciotoville silt loam, 0 to 2 percent slopes	All areas are prime farmland
ScB	Sciotoville silt loam, 2 to 6 percent slopes	All areas are prime farmland
ScC	Sciotoville silt loam, 6 to 12 percent slopes	Farmland of statewide importance
SdA	Sciotoville silt loam, 0 to 2 percent slopes, occasionally flooded	All areas are prime farmland
SdB	Sciotoville silt loam, 2 to 6 percent slopes, occasionally flooded	All areas are prime farmland
TjB	Tilsit silt loam, 2 to 6 percent slopes	All areas are prime farmland
TjC	Tilsit silt loam, 6 to 12 percent slopes	Farmland of statewide importance
WeA	Weinbach silt loam, 0 to 2 percent slopes	Prime farmland if drained
WeB	Weinbach silt loam, 2 to 6 percent slopes	Prime farmland if drained
WfA	Weinbach silt loam, 0 to 2 percent slopes, occasionally flooded	Prime farmland if drained
WfB	Weinbach silt loam, 2 to 6 percent slopes, occasionally flooded	Prime farmland if drained
WhA	Wheeling loam, 0 to 2 percent slopes	All areas are prime farmland
WhB	Wheeling loam, 2 to 6 percent slopes	All areas are prime farmland
WhC	Wheeling loam, 6 to 12 percent slopes	Farmland of statewide importance
WkA	Wheeling loam, 0 to 2 percent slopes, occasionally flooded	All areas are prime farmland
WkB	Wheeling loam, 2 to 6 percent slopes, occasionally flooded	All areas are prime farmland
WkC	Wheeling loam, 6 to 12 percent slopes, occasionally flooded	Farmland of statewide importance
WoA	Woolper silt loam, 0 to 2 percent slopes, rarely flooded	All areas are prime farmland
WoB	Woolper silt loam, 2 to 6 percent slopes, rarely flooded	All areas are prime farmland
WoC	Woolper silt loam, 6 to 12 percent slopes, rarely flooded	Farmland of statewide importance



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Somewhat limited Too acid	0.08	Somewhat limited Too acid	0.31
AfC: Alford-----	90	Somewhat limited Too acid Slope	0.08 0.04	Somewhat limited Too acid Slope	0.31 0.04
AfD: Alford-----	85	Very limited Slope Too acid	1.00 0.08	Very limited Slope Too acid	1.00 0.31
AfF: Alford-----	80	Very limited Slope Too acid	1.00 0.08	Very limited Slope Too acid	1.00 0.31
BeB: Beasley-----	80	Very limited Slow water movement	1.00	Very limited Slow water movement Low adsorption	1.00 1.00
BeC: Beasley-----	80	Very limited Slow water movement Slope	1.00 0.04	Very limited Slow water movement Low adsorption Slope	1.00 1.00 0.04
BeD: Beasley-----	80	Very limited Slow water movement Slope	1.00 1.00	Very limited Slow water movement Low adsorption Slope	1.00 1.00 1.00
Bo: Boonewood-----	90	Very limited Depth to saturated zone Droughty Flooding Depth to bedrock	1.00 0.95 0.60 0.46	Very limited Depth to saturated zone Flooding Low adsorption Droughty Depth to bedrock	1.00 1.00 1.00 0.95 0.46

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CaB2: Caneyville-----	80	Very limited Slow water movement Depth to bedrock Droughty Too acid	1.00 0.46 0.41 0.08	Very limited Slow water movement Low adsorption Depth to bedrock Droughty Too acid	1.00 1.00 0.46 0.41 0.31
CaC2: Caneyville-----	80	Very limited Slow water movement Depth to bedrock Droughty Too acid Slope	1.00 0.46 0.41 0.08 0.04	Very limited Slow water movement Low adsorption Depth to bedrock Droughty Too acid	1.00 1.00 0.46 0.41 0.31
CaD2: Caneyville-----	80	Very limited Slow water movement Slope Depth to bedrock Droughty Too acid	1.00 1.00 0.46 0.41 0.08	Very limited Slow water movement Low adsorption Slope Depth to bedrock Droughty	1.00 1.00 1.00 0.46 0.41
CcF2: Caneyville-----	70	Very limited Slow water movement Slope Depth to bedrock Droughty Too acid	1.00 1.00 0.46 0.41 0.08	Very limited Slow water movement Low adsorption Slope Depth to bedrock Droughty	1.00 1.00 1.00 0.46 0.41
Rock outcrop-----	20	Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Slope Slow water movement Too acid	1.00 0.41 0.22	Very limited Low adsorption Slope Too acid Slow water movement	1.00 1.00 0.77 0.31
Cm: Cemeteries-----	100	Not rated		Not rated	
CnF: Chagrin-----	35	Very limited Flooding Slope	1.00 0.91	Very limited Flooding Slope	1.00 0.91
Nelse-----	35	Very limited Flooding Slope	1.00 0.91	Very limited Flooding Slope	1.00 0.91

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CnF: Wheeling-----	10	Very limited Flooding Slope Filtering capacity Too acid	1.00 1.00 0.99 0.27	Very limited Flooding Slope Filtering capacity Too acid	1.00 1.00 0.99 0.85
Co: Combs-----	90	Somewhat limited Flooding	0.60	Very limited Flooding	1.00
CrA: Crider-----	90	Somewhat limited Too acid	0.18	Somewhat limited Too acid	0.67
CrB: Crider-----	90	Somewhat limited Too acid	0.18	Somewhat limited Too acid	0.67
CrC: Crider-----	90	Somewhat limited Too acid Slope	0.18 0.04	Somewhat limited Too acid Slope	0.67 0.04
CrD: Crider-----	80	Very limited Slope Too acid	1.00 0.18	Very limited Slope Too acid	1.00 0.67
DAM: Dam, large-----	100	Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated	
EkA: Elk-----	90	Somewhat limited Too acid	0.22	Somewhat limited Too acid	0.77
EkB: Elk-----	90	Somewhat limited Too acid	0.22	Somewhat limited Too acid	0.77
EkC: Elk-----	90	Somewhat limited Too acid Slope	0.22 0.04	Somewhat limited Too acid Slope	0.77 0.04
EkD: Elk-----	90	Very limited Slope Too acid	1.00 0.22	Very limited Slope Too acid	1.00 0.77
EoA: Elk-----	90	Somewhat limited Flooding Too acid	0.60 0.22	Very limited Flooding Too acid	1.00 0.77

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
EoB: Elk-----	90	Somewhat limited Flooding Too acid	0.60 0.22	Very limited Flooding Too acid	1.00 0.77
EoC: Elk-----	90	Somewhat limited Flooding Too acid Slope	0.60 0.22 0.04	Very limited Flooding Too acid Slope	1.00 0.77 0.04
FaC: Faywood-----	80	Very limited Slow water movement Depth to bedrock Droughty Slope	1.00 0.54 0.32 0.04	Very limited Slow water movement Low adsorption Depth to bedrock Droughty Slope	1.00 1.00 0.54 0.32 0.04
FaD: Faywood-----	80	Very limited Slow water movement Slope Depth to bedrock Droughty	1.00 1.00 0.54 0.32	Very limited Slow water movement Low adsorption Slope Depth to bedrock Droughty	1.00 1.00 1.00 0.54 0.32
FeC3: Faywood-----	85	Very limited Slow water movement Depth to bedrock Droughty Slope	1.00 0.20 0.16 0.04	Very limited Slow water movement Low adsorption Depth to bedrock Droughty Slope	1.00 1.00 0.20 0.16 0.04
FeD3: Faywood-----	80	Very limited Slow water movement Slope Depth to bedrock Droughty	1.00 1.00 0.20 0.16	Very limited Slow water movement Low adsorption Slope Depth to bedrock Droughty	1.00 1.00 1.00 0.20 0.16
FsF: Faywood-----	40	Very limited Slope Slow water movement Depth to bedrock Droughty	1.00 1.00 0.54 0.32	Very limited Slow water movement Low adsorption Slope Depth to bedrock Droughty	1.00 1.00 1.00 0.54 0.32

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
<b>FsF:</b>					
Shrouts-----	30	Very limited		Very limited	
		Slope	1.00	Slow water	1.00
		Slow water	1.00	movement	
		movement		Low adsorption	1.00
		Runoff	0.40	Slope	1.00
		Droughty	0.32	Droughty	0.32
		Depth to bedrock	0.10	Depth to bedrock	0.10
<b>Beasley-----</b>	<b>25</b>	<b>Very limited</b>		<b>Very limited</b>	
		Slope	1.00	Slow water	1.00
		Slow water	1.00	movement	
		movement		Low adsorption	1.00
				Slope	1.00
<b>GpD:</b>					
Gilpin-----	80	Very limited		Very limited	
		Slope	1.00	Low adsorption	1.00
		Too acid	0.73	Too acid	1.00
		Droughty	0.68	Slope	1.00
		Depth to bedrock	0.35	Droughty	0.68
				Depth to bedrock	0.35
<b>GwF:</b>					
Gilpin-----	45	Very limited		Very limited	
		Slope	1.00	Low adsorption	1.00
		Too acid	0.73	Slope	1.00
		Droughty	0.68	Too acid	1.00
		Depth to bedrock	0.35	Droughty	0.68
				Depth to bedrock	0.35
<b>Weikert-----</b>	<b>40</b>	<b>Very limited</b>		<b>Very limited</b>	
		Slope	1.00	Droughty	1.00
		Droughty	1.00	Low adsorption	1.00
		Depth to bedrock	1.00	Slope	1.00
		Filtering	0.99	Depth to bedrock	1.00
		capacity		Filtering	0.99
		Leaching	0.70	capacity	
<b>Ha:</b>					
Huntington-----	90	Somewhat limited		Very limited	
		Flooding	0.60	Flooding	1.00
<b>Hf:</b>					
Huntington-----	90	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
<b>LaA:</b>					
Lawrence-----	90	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Too acid	0.22	Too acid	0.77

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
LaB: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00  1.00 0.22	Very limited Slow water movement Depth to saturated zone Too acid	1.00  1.00 0.77
LbA: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00  1.00 0.60 0.22	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00  1.00 1.00 0.77
LbB: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00  1.00 0.60 0.22	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00  1.00 1.00 0.77
Ld: Lindside-----	90	Somewhat limited Depth to saturated zone Flooding	0.96  0.60	Very limited Flooding Depth to saturated zone	1.00 0.96
Ln: Lindside-----	90	Very limited Flooding Depth to saturated zone	1.00 0.96	Very limited Flooding Depth to saturated zone	1.00 0.96
Me: Melvin-----	90	Very limited Slow water movement Depth to saturated zone Flooding Runoff	1.00  1.00 0.60 0.40	Very limited Slow water movement Depth to saturated zone Flooding	1.00  1.00 1.00
Mf: Melvin-----	90	Very limited Slow water movement Depth to saturated zone Flooding Runoff	1.00  1.00 1.00 0.40	Very limited Slow water movement Depth to saturated zone Flooding	1.00  1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ne: Newark-----	90	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00
Nf: Newark-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00
NnA: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.99 0.22	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.99 0.77
NnB: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.99 0.22	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.99 0.77
NnC: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone Too acid Slope	1.00 0.99 0.22 0.04	Very limited Slow water movement Depth to saturated zone Too acid Slope	1.00 0.99 0.77 0.04
No: Nolin-----	90	Somewhat limited Flooding	0.60	Very limited Flooding	1.00
OtA: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.08	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31
OtB: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.08	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
OtC:					
Otwood-----	90	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Too acid	0.08	Too acid	0.31
		Slope	0.04	Slope	0.04
OwA:					
Otwood-----	90	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Flooding	0.60	Flooding	1.00
		Too acid	0.08	Too acid	0.31
OwB:					
Otwood-----	90	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Flooding	0.60	Flooding	1.00
		Too acid	0.08	Too acid	0.31
OwC:					
Otwood-----	90	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Flooding	0.60	Flooding	1.00
		Too acid	0.08	Too acid	0.31
		Slope	0.04	Slope	0.04
Pa:					
Patton-----	90	Very limited		Very limited	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Ponding	1.00	Ponding	1.00
		Leaching	0.70		
Pt:					
Pits, quarries-----	100	Not rated		Not rated	
RoA:					
Robertsville-----	90	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Too acid	0.73	Too acid	1.00
		Runoff	0.40		

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
RpA: Robertsville-----	90	Very limited Slow water movement Depth to saturated zone Ponding Too acid Runoff	1.00 1.00 1.00 0.73 0.40	Very limited Slow water movement Depth to saturated zone Too acid Ponding	1.00 1.00 1.00 1.00
SaB: Sandview-----	90	Somewhat limited Too acid	0.32	Somewhat limited Too acid	0.91
SaC: Sandview-----	90	Somewhat limited Too acid Slope	0.32 0.04	Somewhat limited Too acid Slope	0.91 0.04
ScA: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Dense layer Too acid	1.00 1.00 1.00 0.08	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31
ScB: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Dense layer Too acid	1.00 1.00 1.00 0.08	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31
ScC: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Dense layer Too acid Slope	1.00 1.00 1.00 0.08 0.04	Very limited Slow water movement Depth to saturated zone Too acid Slope	1.00 1.00 0.31 0.04
SdA: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Dense layer Flooding Too acid	1.00 1.00 1.00 0.60 0.08	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
SdB: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Dense layer Flooding Too acid	1.00 1.00 1.00 0.60 0.08	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.31
ShC3: Shrouts-----	75	Very limited Slow water movement Runoff Droughty Depth to bedrock Slope	1.00 0.40 0.32 0.10 0.04	Very limited Slow water movement Low adsorption Droughty Depth to bedrock Slope	1.00 1.00 0.32 0.10 0.04
ShD3: Shrouts-----	75	Very limited Slow water movement Slope Runoff Droughty Depth to bedrock	1.00 1.00 0.40 0.32 0.10	Very limited Slow water movement Low adsorption Slope Droughty Depth to bedrock	1.00 1.00 1.00 0.32 0.10
TjB: Tilsit-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.98 0.78	Very limited Slow water movement Too acid Depth to saturated zone	1.00 1.00 0.98
TjC: Tilsit-----	90	Very limited Slow water movement Depth to saturated zone Too acid Slope	1.00 0.98 0.78 0.04	Very limited Slow water movement Too acid Depth to saturated zone Slope	1.00 1.00 0.98 0.04
TjD: Tilsit-----	90	Very limited Slow water movement Slope Depth to saturated zone Too acid	1.00 1.00 0.98 0.78	Very limited Slow water movement Too acid Slope Depth to saturated zone	1.00 1.00 1.00 0.98
Ua: Urban land-----	95	Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UabC:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Droughty Depth to bedrock Runoff	1.00 1.00 0.46 0.40	Very limited Depth to saturated zone Low adsorption Droughty Depth to bedrock Flooding	1.00 1.00 1.00 0.46 0.40
Boonewood-----	25	Very limited Depth to saturated zone Droughty Depth to bedrock	1.00 0.95 0.46	Very limited Depth to saturated zone Low adsorption Droughty Depth to bedrock Flooding	1.00 1.00 0.95 0.46 0.40
UacB:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Somewhat limited Runoff	0.40	Somewhat limited Flooding	0.40
Combs-----	25	Not limited		Somewhat limited Flooding	0.40
UadB:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Runoff	1.00 1.00 0.40	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40
Melvin-----	25	Very limited Slow water movement Depth to saturated zone Runoff	1.00 1.00 0.40	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40
UaeB:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Runoff	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40
Newark-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Flooding	1.00 0.40

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UafC:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Runoff	1.00 1.00 0.40	Very limited Slow water movement Depth to saturated zone	1.00 1.00
Zipp-----	25	Very limited Slow water movement Depth to saturated zone Ponding Runoff	1.00 1.00 1.00 0.40	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00
UagB:					
Urban land-----	60	Not rated		Not rated	
Udarents-----	40	Very limited Depth to saturated zone Slow water movement Droughty Runoff	1.00 1.00 0.45 0.40	Very limited Depth to saturated zone Low adsorption Slow water movement Droughty Flooding	1.00 1.00 0.96 0.45 0.40
UahC:					
Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UaiC:					
Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UajF:					
Urban land-----	50	Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated	
UakF:					
Urban land-----	30	Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated	
UamC:					
Urban land-----	50	Not rated		Not rated	
Ultic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Runoff	1.00 0.98 0.78 0.40	Very limited Slow water movement Too acid Depth to saturated zone	1.00 1.00 0.98

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UamC:					
Tilsit-----	25	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.98 0.78	Very limited Slow water movement Too acid Depth to saturated zone	1.00 1.00 0.98
Ubc:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Filtering capacity Too acid Runoff	0.99 0.43 0.40	Very limited Filtering capacity Too acid	0.99 0.99
Ubd:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Filtering capacity Too acid Runoff	1.00 0.99 0.43 0.40	Very limited Slope Filtering capacity Too acid	1.00 0.99 0.99
UcC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Filtering capacity Slow water movement Too acid Runoff	0.99 0.76 0.43 0.40	Very limited Low adsorption Filtering capacity Too acid Slow water movement	1.00 0.99 0.99 0.62
UcF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Filtering capacity Slow water movement Too acid Runoff	1.00 0.99 0.76 0.43 0.40	Very limited Low adsorption Slope Filtering capacity Too acid Slow water movement	1.00 1.00 0.99 0.62
UdC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Filtering capacity Too acid Runoff	0.99 0.43 0.40	Very limited Filtering capacity Too acid Flooding	0.99 0.99 0.40

# Soil Survey of Jefferson County, Kentucky

Table 8.-Agricultural Waste Management, Part I--Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UeC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Dense layer	1.00	Too acid	0.99
		Too acid	0.50		
		Runoff	0.40		
UfC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Dense layer	1.00	Too acid	0.99
		Too acid	0.50	Flooding	0.40
		Runoff	0.40		
UgC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	0.98	Low adsorption	1.00
		saturated zone		Too acid	1.00
		Too acid	0.78	Depth to	0.98
		Runoff	0.40	saturated zone	
UhC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	0.99	Low adsorption	1.00
		saturated zone		Depth to	0.99
		Runoff	0.40	saturated zone	
		Too acid	0.22	Too acid	0.77
Uic:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Runoff	0.40	Low adsorption	1.00
		Too acid	0.11	Too acid	0.42



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UjD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Slope	1.00	Low adsorption	1.00
		Runoff	0.40	Slope	1.00
		Too acid	0.11	Too acid	0.42
UiF:					
Urban land-----	60	Not rated		Not rated	
Ultic Udarents-----	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Too acid	0.50	Too acid	0.99
		Slow water	0.41	Slow water	0.31
		movement		movement	
		Runoff	0.40		
UjC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Runoff	0.40	Low adsorption	1.00
		Too acid	0.14	Too acid	0.55
UjD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Slope	1.00	Low adsorption	1.00
		Runoff	0.40	Slope	1.00
		Too acid	0.14	Too acid	0.55
UjF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slope	1.00	Slope	1.00
		Too acid	0.50	Too acid	0.99
		Slow water	0.41	Slow water	0.31
		movement		movement	
		Runoff	0.40		
UkC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Runoff	0.40	Low adsorption	1.00
		Too acid	0.11	Too acid	0.42

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UkC:					
Beasley-----	25	Very limited Slow water movement	1.00	Very limited Slow water movement Low adsorption	1.00
UIC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to bedrock Droughty Runoff Large stones on the surface	1.00 0.46 0.46 0.40 0.18	Very limited Slow water movement Low adsorption Depth to bedrock Droughty Too acid	1.00 1.00 0.46 0.46 0.31
Caneyville-----	25	Very limited Slow water movement Depth to bedrock Droughty Too acid	1.00 0.46 0.41 0.08	Very limited Slow water movement Low adsorption Depth to bedrock Droughty Too acid	1.00 1.00 0.46 0.41 0.31
UID:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Slope Depth to bedrock Droughty Runoff	1.00 1.00 0.46 0.46 0.40	Very limited Slow water movement Low adsorption Slope Depth to bedrock Droughty	1.00 1.00 1.00 0.46 0.46
Caneyville-----	25	Very limited Slow water movement Slope Depth to bedrock Droughty Too acid	1.00 1.00 0.46 0.41 0.08	Very limited Slow water movement Low adsorption Slope Depth to bedrock Droughty	1.00 1.00 1.00 0.46 0.41
UmC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Runoff Too acid	0.40 0.14	Somewhat limited Too acid	0.55
Crider-----	25	Somewhat limited Too acid	0.18	Somewhat limited Too acid	0.67

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UmD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Runoff Too acid	1.00 0.40 0.14	Very limited Slope Too acid	1.00 0.55
Crider-----	25	Very limited Slope Too acid	1.00 0.18	Very limited Slope Too acid	1.00 0.67
UnC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Runoff Too acid	0.40 0.22	Somewhat limited Too acid Flooding	0.77 0.40
Elk-----	25	Somewhat limited Too acid	0.22	Somewhat limited Too acid Flooding	0.77 0.40
UoC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Runoff Too acid	1.00 1.00 0.40 0.22	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.77
Lawrence-----	25	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.22	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.77
UpC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Runoff Too acid	1.00 1.00 0.40 0.22	Very limited Slow water movement Depth to saturated zone Too acid Flooding	1.00 1.00 0.77 0.40
Lawrence-----	25	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.22	Very limited Slow water movement Depth to saturated zone Too acid Flooding	1.00 1.00 0.77 0.40

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UqC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Runoff Too acid	1.00 0.99 0.40 0.22	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.99 0.77
Nicholson-----	25	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.99 0.22	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.99 0.77
UrC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.99
Otwood-----	25	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.08	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31
UsC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Runoff	1.00 1.00 0.50 0.40	Very limited Slow water movement Depth to saturated zone Too acid Flooding	1.00 1.00 0.99 0.40
Otwood-----	25	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.08	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00 1.00 0.40 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UtC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Too acid	0.73	Too acid	1.00
		Runoff	0.40		
Robertsville-----	25	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Too acid	0.73	Too acid	1.00
		Runoff	0.40		
UuC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited		Somewhat limited	
		Runoff	0.40	Too acid	0.31
		Too acid	0.08		
Sandview-----	25	Somewhat limited		Somewhat limited	
		Too acid	0.32	Too acid	0.91
UvC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Dense layer	1.00	Too acid	0.99
		Too acid	0.50		
		Runoff	0.40		
Sciotoville-----	25	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Dense layer	1.00	Too acid	0.31
		Too acid	0.08		
UwC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Runoff	0.40	Low adsorption	1.00
		Droughty	0.36	Droughty	0.36
		Depth to bedrock	0.10	Depth to bedrock	0.10

# Soil Survey of Jefferson County, Kentucky

Table 8.-Agricultural Waste Management, Part= I-Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UwC:					
Shrouts-----	25	Very limited Slow water movement Runoff Droughty Depth to bedrock	1.00 0.40 0.32 0.10	Very limited Slow water movement Low adsorption Droughty Depth to bedrock	1.00 1.00 0.32 0.10
UwD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Slope Runoff Droughty Depth to bedrock	1.00 1.00 0.40 0.36 0.10	Very limited Slow water movement Low adsorption Slope Droughty Depth to bedrock	1.00 1.00 1.00 0.36 0.10
Shrouts-----	25	Very limited Slow water movement Slope Runoff Droughty Depth to bedrock	1.00 1.00 0.40 0.32 0.10	Very limited Slow water movement Low adsorption Slope Droughty Depth to bedrock	1.00 1.00 1.00 0.32 0.10
UxC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Dense layer Too acid Runoff	1.00 1.00 1.00 0.50 0.40	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.99
Weinbach-----	25	Very limited Slow water movement Depth to saturated zone Dense layer Too acid	1.00 1.00 1.00 0.08	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31
UyC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Filtering capacity Too acid Runoff	0.99 0.43 0.40	Very limited Filtering capacity Too acid	0.99 0.99
Wheeling-----	25	Very limited Filtering capacity Too acid	0.99 0.27	Very limited Filtering capacity Too acid	0.99 0.85

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UyD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope	1.00	Very limited Slope	1.00
		Filtering capacity	0.99	Filtering capacity	0.99
		Too acid	0.43	Too acid	0.99
		Runoff	0.40		
Wheeling-----	25	Very limited Slope	1.00	Very limited Slope	1.00
		Filtering capacity	0.99	Filtering capacity	0.99
		Too acid	0.27	Too acid	0.85
UzC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Filtering capacity	0.99	Very limited Filtering capacity	0.99
		Too acid	0.43	Too acid	0.99
		Runoff	0.40	Flooding	0.40
Wheeling-----	25	Very limited Filtering capacity	0.99	Very limited Filtering capacity	0.99
		Too acid	0.27	Too acid	0.85
				Flooding	0.40
W:					
Water-----	100	Not rated		Not rated	
WeA:					
Weinbach-----	90	Very limited Slow water movement	1.00	Very limited Slow water movement	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Dense layer	1.00	Too acid	0.31
		Too acid	0.08		
WeB:					
Weinbach-----	90	Very limited Slow water movement	1.00	Very limited Slow water movement	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Dense layer	1.00	Too acid	0.31
		Too acid	0.08		

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WfA: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Dense layer Flooding Too acid	1.00 1.00 1.00 0.60 0.08	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.31
WfB: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Dense layer Flooding Too acid	1.00 1.00 1.00 0.60 0.08	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.31
WhA: Wheeling-----	90	Very limited Filtering capacity Too acid	0.99 0.27	Very limited Filtering capacity Too acid	0.99 0.85
WhB: Wheeling-----	90	Very limited Filtering capacity Too acid	0.99 0.27	Very limited Filtering capacity Too acid	0.99 0.85
WhC: Wheeling-----	90	Very limited Filtering capacity Too acid Slope	0.99 0.27 0.04	Very limited Filtering capacity Too acid Slope	0.99 0.85 0.04
WhD: Wheeling-----	90	Very limited Slope Filtering capacity Too acid	1.00 0.99 0.27	Very limited Slope Filtering capacity Too acid	1.00 0.99 0.85
WhF: Wheeling-----	90	Very limited Slope Filtering capacity Flooding Too acid	1.00 0.99 0.60 0.27	Very limited Flooding Slope Filtering capacity Too acid	1.00 1.00 0.99 0.85
WkA: Wheeling-----	90	Very limited Filtering capacity Flooding Too acid	0.99 0.60 0.27	Very limited Flooding Filtering capacity Too acid	1.00 0.99 0.85



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WkB: Wheeling-----	90	Very limited Filtering capacity Flooding Too acid	0.99 0.60 0.27	Very limited Flooding Filtering capacity Too acid	1.00 0.99 0.85
WkC: Wheeling-----	90	Very limited Filtering capacity Flooding Too acid Slope	0.99 0.60 0.27 0.04	Very limited Flooding Filtering capacity Too acid Slope	1.00 0.99 0.85 0.04
WkD: Wheeling-----	90	Very limited Slope Filtering capacity Flooding Too acid	1.00 0.99 0.60 0.27	Very limited Flooding Slope Filtering capacity Too acid	1.00 1.00 0.99 0.85
WkF: Wheeling-----	90	Very limited Slope Filtering capacity Too acid	1.00 0.99 0.27	Very limited Slope Filtering capacity Too acid	1.00 0.99 0.85
WoA: Woolper-----	80	Not limited		Somewhat limited Flooding	0.40
WoB: Woolper-----	80	Not limited		Somewhat limited Flooding	0.40
WoC: Woolper-----	80	Somewhat limited Slope	0.04	Somewhat limited Flooding Slope	0.40 0.04
ZpA: Zipp-----	90	Very limited Slow water movement Depth to saturated zone Ponding Runoff	1.00 1.00 1.00 0.40	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Somewhat limited Too acid Too steep for surface application	0.31 0.08	Very limited Seepage Too acid	1.00 0.31
AfC: Alford-----	90	Very limited Too steep for surface application Too acid Too steep for sprinkler application	1.00 0.31 0.22	Very limited Seepage Too steep for surface application Too acid	1.00 0.50 0.31
AfD: Alford-----	85	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 0.31	Very limited Seepage Too steep for surface application Too acid	1.00 1.00 0.31 0.31
AfF: Alford-----	80	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 0.31	Very limited Seepage Too steep for surface application Too acid	1.00 1.00 0.31
BeB: Beasley-----	80	Very limited Slow water movement Too steep for surface application	1.00 0.08	Very limited Seepage Depth to bedrock	1.00 0.61

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
BeC: Beasley-----	80	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application	1.00 1.00 0.22	Very limited Seepage Depth to bedrock Too steep for surface application	1.00 0.61 0.50
BeD: Beasley-----	80	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application	1.00 1.00 1.00	Very limited Seepage Too steep for surface application Depth to bedrock	1.00 1.00 0.61
Bo: Boonewood-----	90	Very limited Depth to saturated zone Droughty Flooding Depth to bedrock	1.00 0.95 0.60 0.46	Very limited Flooding Seepage Depth to saturated zone Depth to bedrock	1.00 1.00 1.00
CaB2: Caneyville-----	80	Very limited Slow water movement Depth to bedrock Droughty Too acid Too steep for surface application	1.00 0.46 0.41 0.31 0.08	Very limited Seepage Depth to bedrock Too acid Stone content	1.00 1.00 0.31 0.05
CaC2: Caneyville-----	80	Very limited Slow water movement Too steep for surface application Depth to bedrock Droughty Too acid	1.00 1.00 0.46 0.41 0.31	Very limited Seepage Depth to bedrock Too steep for surface application Too acid Stone content	1.00 1.00 0.50 0.31 0.05

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CaD2: Caneyville-----	80	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Depth to bedrock Droughty	1.00 1.00 1.00 0.46 0.41	Very limited Seepage Too steep for surface application Depth to bedrock Too acid Stone content	1.00 1.00 1.00 0.31 0.05
CcF2: Caneyville-----	70	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Depth to bedrock Droughty	1.00 1.00 1.00 0.46 0.41	Very limited Seepage Too steep for surface application Depth to bedrock Too acid Stone content	1.00 1.00 1.00 0.31 0.05
Rock outcrop-----	20	Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Too steep for surface application Too steep for sprinkler application Too acid Slow water movement	1.00 1.00 1.00 0.77 0.31	Very limited Seepage Too steep for surface application Depth to bedrock Too acid	1.00 1.00 0.84 0.77
Cm: Cemeteries-----	100	Not rated		Not rated	
CnF: Chagrin-----	35	Very limited Flooding Too steep for surface application Too steep for sprinkler application	1.00 1.00 0.94	Very limited Flooding Seepage Too steep for surface application	1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CnF: Nelse-----	35	Very limited Flooding Too steep for surface application Too steep for sprinkler application	1.00 1.00   0.94	Very limited Flooding Seepage Too steep for surface application	1.00 1.00 1.00
Wheeling-----	10	Very limited Flooding Too steep for surface application Too steep for sprinkler application Filtering capacity Too acid	1.00 1.00  1.00 0.99 0.85	Very limited Flooding Seepage Too steep for surface application Too acid	1.00 1.00 1.00 0.85
Co: Combs-----	90	Somewhat limited Flooding	0.60	Very limited Flooding Seepage	1.00 1.00
CrA: Crider-----	90	Somewhat limited Too acid	0.67	Very limited Seepage Too acid	1.00 0.67
CrB: Crider-----	90	Somewhat limited Too acid Too steep for surface application	0.67 0.08	Very limited Seepage Too acid	1.00 0.67
CrC: Crider-----	90	Very limited Too steep for surface application Too acid Too steep for sprinkler application	1.00  0.67 0.22	Very limited Seepage Too acid Too steep for surface application	1.00 0.67 0.50
CrD: Crider-----	80	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 0.67	Very limited Seepage Too steep for surface application Too acid	1.00 1.00 0.67

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
DAM: Dam, large-----	100	Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated	
EkA: Elk-----	90	Somewhat limited Too acid	0.77	Very limited Seepage Too acid	1.00 0.77
EkB: Elk-----	90	Somewhat limited Too acid Too steep for surface application	0.77 0.08	Very limited Seepage Too acid	1.00 0.77
EkC: Elk-----	90	Very limited Too steep for surface application Too acid Too steep for sprinkler application	1.00 0.77 0.22	Very limited Seepage Too acid Too steep for surface application	1.00 0.77 0.50
EkD: Elk-----	90	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 0.77	Very limited Seepage Too steep for surface application Too acid	1.00 1.00 0.77
EoA: Elk-----	90	Somewhat limited Too acid Flooding	0.77 0.60	Very limited Flooding Seepage Too acid	1.00 1.00 0.77
EoB: Elk-----	90	Somewhat limited Too acid Flooding Too steep for surface application	0.77 0.60 0.08	Very limited Flooding Seepage Too acid	1.00 1.00 0.77

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
EoC: Elk-----	90	Very limited Too steep for surface application Too acid Flooding Too steep for sprinkler application	1.00   0.77 0.60 0.22	Very limited Flooding Seepage Too acid Too steep for surface application	1.00 1.00 0.77 0.50
FaC: Faywood-----	80	Very limited Slow water movement Too steep for surface application Depth to bedrock Droughty Too steep for sprinkler application	1.00  1.00 0.54 0.32 0.22	Very limited Seepage Depth to bedrock Too steep for surface application	1.00 1.00 0.50
FaD: Faywood-----	80	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Depth to bedrock Droughty	1.00  1.00 1.00 0.54 0.32	Very limited Seepage Too steep for surface application Depth to bedrock	1.00 1.00 1.00
FeC3: Faywood-----	85	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Depth to bedrock Droughty	1.00  1.00 0.22 0.20 0.16	Very limited Seepage Depth to bedrock Too steep for surface application	1.00 1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
FeD3: Faywood-----	80	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Depth to bedrock Droughty	1.00 1.00 1.00 0.20 0.16	Very limited Seepage Too steep for surface application Depth to bedrock	1.00 1.00 1.00
FsF: Faywood-----	40	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Depth to bedrock Droughty	1.00 1.00 1.00 0.54 0.32	Very limited Seepage Too steep for surface application Depth to bedrock	1.00 1.00 1.00
Shrouds-----	30	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Droughty Depth to bedrock	1.00 1.00 1.00 0.32 0.10	Very limited Seepage Too steep for surface application Depth to bedrock	1.00 1.00 1.00
Beasley-----	25	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application	1.00 1.00 1.00	Very limited Seepage Too steep for surface application Depth to bedrock	1.00 1.00 0.61
GpD: Gilpin-----	80	Very limited Too steep for surface application Too steep for sprinkler application Too acid Droughty Depth to bedrock	1.00 1.00 1.00 1.00 0.68 0.35	Very limited Seepage Too steep for surface application Depth to bedrock Too acid	1.00 1.00 1.00 1.00



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
GwF: Gilpin-----	45	Very limited Too steep for surface application Too steep for sprinkler application Too acid Droughty Depth to bedrock	1.00  1.00  1.00 0.68 0.35	Very limited Seepage Too steep for surface application Depth to bedrock Too acid	1.00 1.00  1.00 1.00
Weikert-----	40	Very limited Droughty Too steep for surface application Too steep for sprinkler application Depth to bedrock Filtering capacity	1.00 1.00  1.00 1.00 0.99	Very limited Seepage Depth to bedrock Too steep for surface application Too acid	1.00 1.00 1.00 0.91 0.91
Ha: Huntington-----	90	Somewhat limited Flooding	0.60	Very limited Flooding Seepage	1.00 1.00
Hf: Huntington-----	90	Very limited Flooding	1.00	Very limited Flooding Seepage	1.00 1.00
LaA: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.77	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 0.77
LaB: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.08	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 0.77

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
LbA: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone Too acid Flooding	1.00  1.00  0.77 0.60	Very limited Flooding Seepage Depth to saturated zone Too acid	1.00 1.00 1.00  0.77
LbB: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone Too acid Flooding Too steep for surface application	1.00  1.00  0.77 0.60 0.08	Very limited Flooding Seepage Depth to saturated zone Too acid	1.00 1.00 1.00  0.77
Ld: Lindside-----	90	Somewhat limited Depth to saturated zone Flooding	0.96  0.60	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 0.96
Ln: Lindside-----	90	Very limited Flooding Depth to saturated zone	1.00 0.96	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 0.96
Me: Melvin-----	90	Very limited Slow water movement Depth to saturated zone Flooding	1.00  1.00  0.60	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 1.00
Mf: Melvin-----	90	Very limited Slow water movement Depth to saturated zone Flooding	1.00  1.00  1.00	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 1.00
Ne: Newark-----	90	Very limited Depth to saturated zone Flooding	1.00  0.60	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Nf: Newark-----	90	Very limited Depth to saturated zone Flooding	1.00  1.00	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 1.00
NnA: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00  0.99 0.77	Very limited Seepage Depth to saturated zone Too acid	1.00 0.99 0.77
NnB: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00  0.99 0.77 0.08	Very limited Seepage Depth to saturated zone Too acid	1.00 0.99 0.77
NnC: Nicholson-----	90	Very limited Slow water movement Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 1.00 0.99 0.77 0.22	Very limited Seepage Depth to saturated zone Too acid Too steep for surface application	1.00 0.99 0.77 0.50
No: Nolin-----	90	Somewhat limited Flooding	0.60	Very limited Flooding Seepage	1.00 1.00
OtA: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
OtB: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00  1.00  0.31 0.08	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00  0.31
OtC: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00  1.00 1.00  0.31 0.22	Very limited Seepage Depth to saturated zone Too steep for surface application Too acid	1.00 1.00  0.50 0.31
OwA: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00  1.00  0.60 0.31	Very limited Flooding Seepage Depth to saturated zone Too acid	1.00 1.00 1.00  0.31
OwB: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Flooding Too acid Too steep for surface application	1.00  1.00  0.60 0.31 0.08	Very limited Flooding Seepage Depth to saturated zone Too acid	1.00 1.00 1.00  0.31
OwC: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Too steep for surface application Flooding Too acid	1.00  1.00 1.00  0.60 0.31	Very limited Flooding Seepage Depth to saturated zone Too steep for surface application Too acid	1.00 1.00 1.00  0.50 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Patton-----	90	Very limited Depth to saturated zone Ponding	1.00  1.00	Very limited Seepage Depth to saturated zone Ponding Too level	1.00 1.00 1.00 0.50
Pt: Pits, quarries-----	100	Not rated		Not rated	
RoA: Robertsville-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00  1.00 1.00	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 1.00
RpA: Robertsville-----	90	Very limited Slow water movement Depth to saturated zone Too acid Ponding	1.00  1.00 1.00 1.00	Very limited Seepage Depth to saturated zone Too acid Ponding	1.00 1.00 1.00 1.00
SaB: Sandview-----	90	Somewhat limited Too acid Too steep for surface application	0.91 0.08	Very limited Seepage Too acid	1.00 0.91
SaC: Sandview-----	90	Very limited Too steep for surface application Too acid Too steep for sprinkler application	1.00  0.91 0.22	Very limited Seepage Too acid Too steep for surface application	1.00 0.91 0.50
ScA: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00  1.00 0.31	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ScB: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00  1.00  0.31 0.08	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00  0.31
ScC: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00  1.00 1.00  0.31 0.22	Very limited Seepage Depth to saturated zone Too steep for surface application Too acid	1.00 1.00  0.50 0.31
SdA: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00  1.00  0.60 0.31	Very limited Flooding Seepage Depth to saturated zone Too acid	1.00 1.00 1.00  0.31
SdB: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Flooding Too acid Too steep for surface application	1.00  1.00  0.60 0.31 0.08	Very limited Flooding Seepage Depth to saturated zone Too acid	1.00 1.00 1.00  0.31
ShC3: Shrouts-----	75	Very limited Slow water movement Too steep for surface application Droughty Too steep for sprinkler application Depth to bedrock	1.00  1.00  0.32 0.22 0.10	Very limited Seepage Depth to bedrock Too steep for surface application	1.00 1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ShD3: Shrouts-----	75	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Droughty Depth to bedrock	1.00 1.00 1.00 0.32 0.10	Very limited Seepage Too steep for surface application Depth to bedrock	1.00 1.00 1.00
TjB: Tilsit-----	90	Very limited Slow water movement Too acid Depth to saturated zone Too steep for surface application	1.00 1.00 1.00 0.98 0.08	Very limited Seepage Too acid Depth to saturated zone	1.00 1.00 0.98
TjC: Tilsit-----	90	Very limited Slow water movement Too acid Too steep for surface application Depth to saturated zone Too steep for sprinkler application	1.00 1.00 1.00 0.98 0.22	Very limited Seepage Too acid Depth to saturated zone Too steep for surface application	1.00 1.00 0.98 0.50 0.50
TjD: Tilsit-----	90	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Too acid Depth to saturated zone	1.00 1.00 1.00 1.00 0.98	Very limited Seepage Too steep for surface application Too acid Depth to saturated zone	1.00 1.00 1.00 0.98
Ua: Urban land-----	95	Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UabC:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Droughty	1.00	Depth to bedrock	1.00
		Too steep for surface application	0.68	Seepage	1.00
		Depth to bedrock	0.46	Flooding	0.40
Boonewood-----	25	Very limited Depth to saturated zone	1.00	Very limited Seepage	1.00
		Droughty	0.95	Depth to saturated zone	1.00
		Depth to bedrock	0.46	Depth to bedrock	1.00
				Flooding	0.40
UacB:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Not limited		Very limited Seepage	1.00
				Flooding	0.40
Combs-----	25	Not limited		Very limited Seepage	1.00
				Flooding	0.40
UadB:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Seepage	1.00
				Flooding	0.40
Melvin-----	25	Very limited Slow water movement	1.00	Very limited Seepage	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
				Flooding	0.40
UaeB:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
				Seepage	1.00
				Flooding	0.40
Newark-----	25	Very limited Depth to saturated zone	1.00	Very limited Seepage	1.00
				Depth to saturated zone	1.00
				Flooding	0.40



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UafC:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too steep for surface application	1.00 1.00 0.68	Very limited Depth to saturated zone	1.00
Zippp-----	25	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Seepage	1.00 1.00 0.69
UagB:					
Urban land-----	60	Not rated		Not rated	
Udarents-----	40	Very limited Depth to saturated zone Slow water movement Droughty	1.00 0.96 0.45	Very limited Depth to saturated zone Depth to bedrock Flooding Seepage	1.00 0.42 0.40 0.03
UahC:					
Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UaiC:					
Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UajF:					
Udorthents-----	50	Not rated		Not rated	
Urban land-----	50	Not rated		Not rated	
UakF:					
Urban land-----	30	Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated	
UamC:					
Urban land-----	50	Not rated		Not rated	
Ultic Udarents-----	25	Very limited Slow water movement Too acid Depth to saturated zone Too steep for surface application	1.00 1.00 0.98 0.68	Very limited Too acid Seepage Depth to saturated zone	1.00 1.00 0.98

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UamC:					
Tilsit-----	25	Very limited Slow water movement Too acid Depth to saturated zone Too steep for surface application	1.00  1.00 0.98  0.68	Very limited Seepage Too acid Depth to saturated zone	1.00 1.00 0.98
UbC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Filtering capacity Too acid Too steep for surface application	0.99  0.99 0.68	Very limited Seepage Too acid	1.00 0.99
UbD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Too steep for surface application Too steep for sprinkler application Filtering capacity Too acid	1.00  1.00 0.99 0.99	Very limited Seepage Too steep for surface application Too acid	1.00 1.00 0.99
UcC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Filtering capacity Too acid Too steep for surface application Slow water movement	0.99  0.99 0.68  0.62	Somewhat limited Too acid Seepage	0.99 0.38

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UcF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Too acid	0.99
		Filtering capacity	0.99	Seepage	0.38
		Too acid	0.99		
		Slow water movement	0.62		
UdC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Filtering capacity	0.99	Seepage	1.00
		Too acid	0.99	Too acid	0.99
		Too steep for surface application	0.68	Flooding	0.40
UeC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water movement	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too acid	0.99
		Too acid	0.99	Seepage	0.38
		Too steep for surface application	0.68		
UfC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water movement	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too acid	0.99
		Too acid	0.99	Flooding	0.40
		Too steep for surface application	0.68	Seepage	0.38

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UgC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Too acid	1.00
		movement		Depth to	0.98
		Too acid	1.00	saturated zone	
		Depth to	0.98	Seepage	0.38
		saturated zone		Depth to bedrock	0.01
		Too steep for	0.68		
		surface			
		application			
UhC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Depth to	0.99
		movement		saturated zone	
		Depth to	0.99	Too acid	0.77
		saturated zone		Seepage	0.38
		Too acid	0.77		
		Too steep for	0.68		
		surface			
		application			
Uic:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Somewhat limited	
		Slow water	1.00	Depth to bedrock	0.61
		movement		Too acid	0.42
		Too steep for	0.68		
		surface			
		application			
		Too acid	0.42		
UiD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Too steep for	1.00
		movement		surface	
		Too steep for	1.00	application	
		surface		Depth to bedrock	0.61
		application		Too acid	0.42
		Too steep for	1.00		
		sprinkler			
		application			
		Too acid	0.42		

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UiF:					
Urban land-----	60	Not rated		Not rated	
Ultic Udarents-----	40	Very limited		Very limited	
		Too steep for	1.00	Seepage	1.00
		surface		Too steep for	1.00
		application	1.00	surface	
		Too steep for		application	
		sprinkler		Too acid	0.99
		application			
		Too acid	0.99		
		Slow water	0.31		
		movement			
UjC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Seepage	1.00
		movement		Too acid	0.55
		Too steep for	0.68		
		surface			
		application	0.55		
		Too acid			
UjD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Too steep for	1.00
		movement		surface	
		Too steep for	1.00	application	
		surface		Seepage	1.00
		application		Too acid	0.55
		Too steep for	1.00		
		sprinkler			
		application			
		Too acid	0.55		
UjF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water	1.00	Too steep for	1.00
		movement		surface	
		Too steep for	1.00	application	
		surface		Seepage	1.00
		application		Too acid	0.55
		Too steep for	1.00		
		sprinkler			
		application			
		Too acid	0.55		

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UkC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Too steep for surface application Too acid	1.00 0.68 0.42	Somewhat limited Depth to bedrock Too acid	0.61 0.42
Beasley-----	25	Very limited Slow water movement Too steep for surface application	1.00 0.68	Very limited Seepage Depth to bedrock	1.00 0.61
Ulc:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Too steep for surface application Depth to bedrock Droughty Too acid	1.00 0.68 0.46 0.46 0.31	Very limited Depth to bedrock Too acid Stone content	1.00 0.31 0.08
Caneyville-----	25	Very limited Slow water movement Too steep for surface application Depth to bedrock Droughty Too acid	1.00 0.68 0.46 0.41 0.31	Very limited Seepage Depth to bedrock Too acid Stone content	1.00 1.00 0.31 0.05
Uld:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Depth to bedrock Droughty	1.00 1.00 1.00 0.46 0.46	Very limited Too steep for surface application Depth to bedrock Too acid Stone content	1.00 1.00 0.31 0.08

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
U1D: Caneyville-----	25	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Depth to bedrock Droughty	1.00 1.00 1.00 0.46 0.41	Very limited Seepage Too steep for surface application Depth to bedrock Too acid Stone content	1.00 1.00 1.00 0.31 0.05
UmC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Too steep for surface application Too acid	0.68 0.55	Very limited Seepage Too acid	1.00 0.55
Crider-----	25	Somewhat limited Too steep for surface application Too acid	0.68 0.67	Very limited Seepage Too acid	1.00 0.67
UmD: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 0.55	Very limited Too steep for surface application Seepage Too acid	1.00 1.00 0.55
Crider-----	25	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 1.00 0.67	Very limited Seepage Too steep for surface application Too acid	1.00 1.00 0.67
UnC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Too acid Too steep for surface application	0.77 0.68	Very limited Seepage Too acid Flooding	1.00 0.77 0.40

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UnC: Elk-----	25	Somewhat limited Too acid Too steep for surface application	0.77 0.68	Very limited Seepage Too acid Flooding	1.00 0.77 0.40
UoC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.68	Very limited Depth to saturated zone Seepage Too acid	1.00 1.00 0.77
Lawrence-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.68	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 0.77
UpC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.68	Very limited Depth to saturated zone Seepage Too acid Flooding	1.00 1.00 0.77 0.40
Lawrence-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.68	Very limited Seepage Depth to saturated zone Too acid Flooding	1.00 1.00 0.77 0.40



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UqC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 0.99 0.77 0.68	Very limited Seepage Depth to saturated zone Too acid	1.00 0.99 0.77
Nicholson-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 0.99 0.77 0.68	Very limited Seepage Depth to saturated zone Too acid	1.00 0.99 0.77
UrC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.99 0.68	Very limited Depth to saturated zone Seepage Too acid	1.00 1.00 0.99
Otwood-----	25	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too acid	1.00 1.00 0.68 0.31	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 0.31
UsC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.99 0.68	Very limited Depth to saturated zone Seepage Too acid Flooding	1.00 1.00 0.99 0.40

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UsC:					
Otwood-----	25	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too acid	1.00  1.00 0.68  0.31	Very limited Seepage Depth to saturated zone Flooding Too acid	1.00 1.00 0.40 0.31
UtC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00  1.00 1.00 0.68	Very limited Depth to saturated zone Too acid Seepage	1.00  1.00 1.00
Robertsville-----	25	Very limited Slow water movement Depth to saturated zone Too acid	1.00  1.00 1.00	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 1.00
UuC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Too steep for surface application Too acid	0.68  0.31	Very limited Seepage Too acid	1.00 0.31
Sandview-----	25	Somewhat limited Too acid Too steep for surface application	0.91 0.68	Very limited Seepage Too acid	1.00 0.91
UvC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00  1.00 0.99 0.68	Very limited Depth to saturated zone Seepage Too acid	1.00 1.00 0.99

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UvC: Sciotoville-----	25	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too acid	1.00  1.00  0.68  0.31	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00  0.31
UwC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Too steep for surface application Droughty Depth to bedrock	1.00  0.68  0.36 0.10	Very limited Depth to bedrock	1.00
Shrouts-----	25	Very limited Slow water movement Too steep for surface application Droughty Depth to bedrock	1.00  0.68  0.32 0.10	Very limited Seepage Depth to bedrock	1.00 1.00
UwD: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Droughty Depth to bedrock	1.00  1.00  1.00  0.36 0.10	Very limited Too steep for surface application Depth to bedrock	1.00  1.00
Shrouts-----	25	Very limited Slow water movement Too steep for surface application Too steep for sprinkler application Droughty Depth to bedrock	1.00  1.00  1.00  0.32 0.10	Very limited Seepage Too steep for surface application Depth to bedrock	1.00 1.00  1.00

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UxC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.99 0.68	Very limited Depth to saturated zone Seepage Too acid	1.00 1.00 0.99
Weinbach-----	25	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too acid	1.00 1.00 0.68 0.31	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 0.31
UyC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Filtering capacity Too acid Too steep for surface application	0.99 0.99 0.68	Very limited Seepage Too acid	1.00 0.99
Wheeling-----	25	Very limited Filtering capacity Too acid Too steep for surface application	0.99 0.85 0.68	Very limited Seepage Too acid	1.00 0.85
UyD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too steep for surface application Too steep for sprinkler application Filtering capacity Too acid	1.00 1.00 0.99 0.99	Very limited Too steep for surface application Seepage Too acid	1.00 1.00 0.99

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UyD: Wheeling-----	25	Very limited Too steep for surface application Too steep for sprinkler application Filtering capacity Too acid	1.00   1.00  0.99 0.85	Very limited Seepage Too steep for surface application Too acid	1.00 1.00  0.85
UzC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Filtering capacity Too acid Too steep for surface application	0.99  0.99 0.68	Very limited Seepage Too acid Flooding	1.00 0.99 0.40
Wheeling-----	25	Very limited Filtering capacity Too acid Too steep for surface application	0.99  0.85 0.68	Very limited Seepage Too acid Flooding	1.00 0.85 0.40
W: Water-----	100	Not rated		Not rated	
WeA: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00  1.00 0.31	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 0.31
WeB: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00  1.00 0.31 0.08	Very limited Seepage Depth to saturated zone Too acid	1.00 1.00 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WfA: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00  1.00 0.60 0.31	Very limited Flooding Seepage Depth to saturated zone Too acid	1.00 1.00 1.00 0.31
WfB: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Flooding Too acid Too steep for surface application	1.00  1.00 0.60 0.31 0.08	Very limited Flooding Seepage Depth to saturated zone Too acid	1.00 1.00 1.00 0.31
WhA: Wheeling-----	90	Very limited Filtering capacity Too acid	0.99  0.85	Very limited Seepage Too acid	1.00 0.85
WhB: Wheeling-----	90	Very limited Filtering capacity Too acid Too steep for surface application	0.99  0.85 0.08	Very limited Seepage Too acid	1.00 0.85
WhC: Wheeling-----	90	Very limited Too steep for surface application Filtering capacity Too acid Too steep for sprinkler application	1.00  0.99 0.85 0.22	Very limited Seepage Too acid Too steep for surface application	1.00 0.85 0.50
WhD: Wheeling-----	90	Very limited Too steep for surface application Too steep for sprinkler application Filtering capacity Too acid	1.00  1.00 0.99 0.85	Very limited Seepage Too steep for surface application Too acid	1.00 1.00 0.85

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WhF: Wheeling-----	90	Very limited Too steep for surface application Too steep for sprinkler application Filtering capacity Too acid Flooding	1.00   1.00   0.99 0.85 0.60	Very limited Flooding Seepage Too steep for surface application Too acid	1.00 1.00 1.00   0.85
WkA: Wheeling-----	90	Very limited Filtering capacity Too acid Flooding	0.99  0.85 0.60	Very limited Flooding Seepage Too acid	1.00 1.00 0.85
WkB: Wheeling-----	90	Very limited Filtering capacity Too acid Flooding Too steep for surface application	0.99  0.85 0.60 0.08	Very limited Flooding Seepage Too acid	1.00 1.00 0.85
WkC: Wheeling-----	90	Very limited Too steep for surface application Filtering capacity Too acid Flooding Too steep for sprinkler application	1.00   0.99  0.85 0.60 0.22	Very limited Flooding Seepage Too acid Too steep for surface application	1.00 1.00 0.85 0.50
WkD: Wheeling-----	90	Very limited Too steep for surface application Too steep for sprinkler application Filtering capacity Too acid Flooding	1.00   1.00   0.99 0.85 0.60	Very limited Flooding Seepage Too steep for surface application Too acid	1.00 1.00 1.00   0.85

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation		Overland flow of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WkF: Wheeling-----	90	Very limited Too steep for surface application Too steep for sprinkler application Filtering capacity Too acid	1.00   1.00  0.99 0.85	Very limited Seepage Too steep for surface application Too acid	1.00 1.00  0.85
WoA: Woolper-----	80	Not limited		Very limited Seepage Flooding	1.00 0.40
WoB: Woolper-----	80	Somewhat limited Too steep for surface application	0.08	Very limited Seepage Flooding	1.00 0.40
WoC: Woolper-----	80	Very limited Too steep for surface application Too steep for sprinkler application	1.00  0.22	Very limited Seepage Too steep for surface application Flooding	1.00 0.50 0.40
ZpA: Zipp-----	90	Very limited Slow water movement Depth to saturated zone	1.00  1.00	Very limited Depth to saturated zone Ponding	1.00 1.00



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Very limited Slow water movement Too acid	1.00  0.67	Somewhat limited Too acid Too steep for surface application	0.31  0.08
AfC: Alford-----	90	Very limited Slow water movement Slope Too acid	1.00  1.00 0.67	Very limited Too steep for surface application Too steep for sprinkler irrigation Too acid	1.00   0.50  0.31
AfD: Alford-----	85	Very limited Slope Slow water movement Too acid	1.00 1.00  0.67	Very limited Too steep for surface application Too steep for sprinkler irrigation Too acid	1.00   1.00  0.31
AfF: Alford-----	80	Very limited Slope Slow water movement Too acid	1.00 1.00  0.67	Very limited Too steep for surface application Too steep for sprinkler irrigation Too acid	1.00   1.00  0.31
BeB: Beasley-----	80	Very limited Slow water movement Depth to bedrock	1.00  1.00	Somewhat limited Slow water movement Depth to bedrock Too steep for surface application	0.99  0.61 0.08

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
BeC: Beasley-----	80	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Too steep for surface application Slow water movement Depth to bedrock Too steep for sprinkler irrigation	1.00 0.99 0.61 0.50
BeD: Beasley-----	80	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to bedrock	1.00 1.00 0.99 0.61
Bo: Boonewood-----	90	Very limited Depth to saturated zone Depth to bedrock Slow water movement Flooding	1.00 1.00 1.00 0.60	Very limited Depth to saturated zone Depth to bedrock Flooding	1.00 1.00 0.60
CaB2: Caneyville-----	80	Very limited Slow water movement Depth to bedrock Stone content	1.00 1.00 0.12	Very limited Depth to bedrock Slow water movement Too acid Too steep for surface application	1.00 0.99 0.31 0.08
CaC2: Caneyville-----	80	Very limited Slow water movement Depth to bedrock Slope Stone content	1.00 1.00 1.00 0.12	Very limited Depth to bedrock Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid	1.00 1.00 0.99 0.50 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CaD2: Caneyville-----	80	Very limited Slope Slow water movement Depth to bedrock Stone content	1.00 1.00 1.00 0.12	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Too acid	1.00  1.00  1.00 0.99 0.31
CcF2: Caneyville-----	70	Very limited Slope Slow water movement Depth to bedrock Stone content	1.00 1.00 1.00 0.12	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Too acid	1.00  1.00  1.00 0.99 0.31
Rock outcrop-----	20	Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid Slow water movement	1.00  1.00  0.84 0.77 0.21
Cm: Cemeteries-----	100	Not rated		Not rated	
CnF: Chagrín-----	35	Very limited Flooding Slow water movement Slope	1.00 1.00 1.00	Very limited Flooding Too steep for surface application Too steep for sprinkler irrigation	1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CnF: Nelse-----	35	Very limited Flooding Slope Slow water movement	1.00 1.00 0.32	Very limited Flooding Too steep for surface application Too steep for sprinkler irrigation	1.00 1.00  1.00
Wheeling-----	10	Very limited Flooding Slope Slow water movement	1.00 1.00 0.62	Very limited Flooding Too steep for surface application Too steep for sprinkler irrigation Filtering capacity Too acid	1.00 1.00  1.00 0.99 0.85
Co: Combs-----	90	Very limited Depth to saturated zone Slow water movement Flooding	1.00  0.62  0.60	Somewhat limited Flooding	0.60
CrA: Crider-----	90	Very limited Slow water movement	1.00	Somewhat limited Too acid	0.67
CrB: Crider-----	90	Very limited Slow water movement	1.00	Somewhat limited Too acid Too steep for surface application	0.67 0.08
CrC: Crider-----	90	Very limited Slow water movement Slope	1.00 1.00	Very limited Too steep for surface application Too acid Too steep for sprinkler irrigation	1.00  0.67 0.50

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CrD: Crider-----	80	Very limited Slope Slow water movement	1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Too acid	1.00 1.00 0.67
DAM: Dam, large-----	100	Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated	
EkA: Elk-----	90	Very limited Depth to saturated zone Slow water movement	1.00 1.00	Somewhat limited Too acid	0.77
EkB: Elk-----	90	Very limited Depth to saturated zone Slow water movement	1.00 1.00	Somewhat limited Too acid Too steep for surface application	0.77 0.08
EkC: Elk-----	90	Very limited Depth to saturated zone Slow water movement Slope	1.00 1.00 1.00	Very limited Too steep for surface application Too acid Too steep for sprinkler irrigation	1.00 0.77 0.50
EkD: Elk-----	90	Very limited Slope Depth to saturated zone Slow water movement	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Too acid	1.00 1.00 0.77
EoA: Elk-----	90	Very limited Depth to saturated zone Slow water movement Flooding	1.00 1.00 0.60	Somewhat limited Too acid Flooding	0.77 0.60

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
EoB: Elk-----	90	Very limited Depth to saturated zone Slow water movement Flooding	1.00  1.00 0.60	Somewhat limited Too acid Flooding Too steep for surface application	0.77 0.60 0.08
EoC: Elk-----	90	Very limited Depth to saturated zone Slow water movement Slope Flooding	1.00 1.00 1.00 0.60	Very limited Too steep for surface application Too acid Flooding Too steep for sprinkler irrigation	1.00  0.77 0.60 0.50
FaC: Faywood-----	80	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to bedrock Too steep for surface application Slow water movement Too steep for sprinkler irrigation	1.00 1.00  0.99 0.50
FaD: Faywood-----	80	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement	1.00 1.00 1.00 1.00 0.99
FeC3: Faywood-----	85	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to bedrock Too steep for surface application Slow water movement Too steep for sprinkler irrigation	1.00 1.00  0.99 0.50

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
FeD3: Faywood-----	80	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement	1.00 1.00 1.00 1.00 0.99
FsF: Faywood-----	40	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement	1.00 1.00 1.00 1.00 0.99
Shrouds-----	30	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement	1.00 1.00 1.00 1.00 0.99
Beasley-----	25	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to bedrock	1.00 1.00 1.00 0.99 0.61
GpD: Gilpin-----	80	Very limited Slope Depth to bedrock Slow water movement Too acid	1.00 1.00 1.00 0.14	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid	1.00 1.00 1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
GwF: Gilpin-----	45	Very limited Slope Depth to bedrock Slow water movement Too acid	1.00 1.00 1.00 0.14	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid	1.00 1.00 1.00 1.00 1.00
Weikert-----	40	Very limited Slope Depth to bedrock Cobble content	1.00 1.00 0.16	Very limited Depth to bedrock Too steep for surface application Too steep for sprinkler irrigation Filtering capacity Too acid	1.00 1.00 1.00 0.99 0.91
Ha: Huntington-----	90	Very limited Depth to saturated zone Slow water movement Flooding	1.00 1.00 0.60	Somewhat limited Flooding	0.60
Hf: Huntington-----	90	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 1.00	Very limited Flooding	1.00
LaA: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.77
LaB: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.08



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
<b>LbA:</b>					
Lawrence-----	90	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Flooding	0.60	Too acid	0.77
				Flooding	0.60
<b>LbB:</b>					
Lawrence-----	90	Very limited		Very limited	
		Slow water	1.00	Slow water	1.00
		movement		movement	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Flooding	0.60	Too acid	0.77
				Flooding	0.60
				Too steep for	0.08
				surface	
				application	
<b>Ld:</b>					
Lindside-----	90	Very limited		Somewhat limited	
		Depth to	1.00	Depth to	0.96
		saturated zone		saturated zone	
		Slow water	1.00	Flooding	0.60
		movement			
		Flooding	0.60		
<b>Ln:</b>					
Lindside-----	90	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to	1.00	Depth to	0.96
		saturated zone		saturated zone	
		Slow water	1.00		
		movement			
<b>Me:</b>					
Melvin-----	90	Very limited		Very limited	
		Slow water	1.00	Depth to	1.00
		movement		saturated zone	
		Depth to	1.00	Slow water	0.99
		saturated zone		movement	
		Flooding	0.60	Flooding	0.60
<b>Mf:</b>					
Melvin-----	90	Very limited		Very limited	
		Flooding	1.00	Depth to	1.00
		Slow water	1.00	saturated zone	
		movement		Flooding	1.00
		Depth to	1.00	Slow water	0.99
		saturated zone		movement	
<b>Ne:</b>					
Newark-----	90	Very limited		Very limited	
		Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone	
		Slow water	1.00	Flooding	0.60
		movement			
		Flooding	0.60		

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Nf: Newark-----	90	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00
NnA: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone	1.00 0.99	Very limited Slow water movement Depth to saturated zone Too acid	1.00 0.99 0.77
NnB: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone	1.00 0.99	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 0.99 0.77 0.08
NnC: Nicholson-----	90	Very limited Slow water movement Slope Depth to saturated zone	1.00 1.00 0.99	Very limited Slow water movement Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler irrigation	1.00 1.00 0.99 0.77 0.50
No: Nolin-----	90	Very limited Slow water movement Flooding	1.00 0.60	Somewhat limited Flooding	0.60
OtA: Otwood-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
OtB: Otwood-----	90	Very limited Slow water movement Depth to saturated zone	1.00  1.00	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00  1.00  0.31 0.08
OtC: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Slope	1.00  1.00 1.00	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid	1.00  1.00 1.00  0.50 0.31
OwA: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Flooding	1.00  1.00 0.60	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00  1.00 0.60 0.31
OwB: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Flooding	1.00  1.00 0.60	Very limited Slow water movement Depth to saturated zone Flooding Too acid Too steep for surface application	1.00  1.00 0.60 0.31 0.08
OwC: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Slope Flooding	1.00  1.00 1.00 0.60	Very limited Slow water movement Depth to saturated zone Too steep for surface application Flooding Too steep for sprinkler irrigation	1.00  1.00 1.00  0.60 0.50

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Patton-----	90	Very limited Depth to saturated zone Slow water movement Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00
Pt: Pits, quarries-----	100	Not rated		Not rated	
RoA: Robertsville-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.14	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 1.00
RpA: Robertsville-----	90	Very limited Slow water movement Depth to saturated zone Ponding Too acid	1.00 1.00 1.00 0.14	Very limited Slow water movement Depth to saturated zone Too acid Ponding	1.00 1.00 1.00 1.00
SaB: Sandview-----	90	Very limited Slow water movement	1.00	Somewhat limited Too acid Too steep for surface application	0.91 0.08
SaC: Sandview-----	90	Very limited Slow water movement Slope	1.00 1.00	Very limited Too steep for surface application Too acid Too steep for sprinkler irrigation	1.00 0.91 0.50
ScA: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ScB: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone	1.00  1.00	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00  1.00  0.31 0.08
ScC: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Slope	1.00  1.00 1.00	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid	1.00  1.00 1.00  0.50 0.31
SdA: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Flooding	1.00  1.00 0.60	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00  1.00 0.60 0.31
SdB: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Flooding	1.00  1.00 0.60	Very limited Slow water movement Depth to saturated zone Flooding Too acid Too steep for surface application	1.00  1.00 0.60 0.31 0.08
ShC3: Shrouts-----	75	Very limited Slow water movement Depth to bedrock Slope	1.00  1.00 1.00	Very limited Depth to bedrock Too steep for surface application Slow water movement Too steep for sprinkler irrigation	1.00 1.00   0.99 0.50

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ShD3: Shrouts-----	75	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement	1.00  1.00  1.00 1.00 0.99
TjB: Tilsit-----	90	Very limited Slow water movement Depth to saturated zone Too acid	1.00  0.98  0.21	Very limited Slow water movement Too acid Depth to saturated zone Too steep for surface application	1.00  1.00 0.98  0.08
TjC: Tilsit-----	90	Very limited Slow water movement Slope Depth to saturated zone Too acid	1.00  1.00 0.98  0.21	Very limited Slow water movement Too acid Too steep for surface application Depth to saturated zone Too steep for sprinkler irrigation	1.00  1.00 1.00  0.98 0.50
TjD: Tilsit-----	90	Very limited Slope Slow water movement Depth to saturated zone Too acid	1.00 1.00  0.98  0.21	Very limited Slow water movement Too steep for surface application Too steep for sprinkler irrigation Too acid Depth to saturated zone	1.00  1.00  1.00  1.00 0.98
Ua: Urban land-----	95	Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UabC:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slow water movement	1.00	Too steep for surface application	0.68
		Slope	0.50		
Boonewood-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
		Slow water movement	1.00		
UacB:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone	1.00	Not limited	
		Slow water movement	0.62		
Combs-----	25	Very limited Depth to saturated zone	1.00	Not limited	
		Slow water movement	0.62		
UadB:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	0.99
Melvin-----	25	Very limited Slow water movement	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slow water movement	0.99
UaeB:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Slow water movement	1.00		

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UaeB: Newark-----	25	Very limited Depth to saturated zone Slow water movement	1.00 1.00	Very limited Depth to saturated zone	1.00
UafC: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too steep for surface application	1.00 1.00 0.68
Zipp-----	25	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00
UagB: Urban land-----	60	Not rated		Not rated	
Udarents-----	40	Very limited Slow water movement Depth to saturated zone Depth to bedrock	1.00 1.00 1.00	Very limited Depth to saturated zone Slow water movement Depth to bedrock	1.00 0.85 0.42
UahC: Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UaiC: Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UajF: Urban land-----	50	Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated	
UakF: Urban land-----	30	Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated	



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UamC: Urban land-----	50	Not rated		Not rated	
Ultic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Slope Too acid	1.00 0.98 0.50 0.21	Very limited Slow water movement Too acid Depth to saturated zone Too steep for surface application	1.00 1.00 0.98 0.68
Tilsit-----	25	Very limited Slow water movement Depth to saturated zone Slope Too acid	1.00 0.98 0.50 0.21	Very limited Slow water movement Too acid Depth to saturated zone Too steep for surface application	1.00 1.00 0.98 0.68
Ubc: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slow water movement Slope	0.62 0.50	Very limited Filtering capacity Too acid Too steep for surface application	0.99 0.99 0.68
Ubd: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Slow water movement	1.00 0.62	Very limited Too steep for surface application Too steep for sprinkler irrigation Filtering capacity Too acid	1.00 1.00 0.99 0.99
UcC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement Slope	1.00 0.50	Very limited Filtering capacity Too acid Too steep for surface application Slow water movement	0.99 0.99 0.68 0.44

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UcF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited	
		Slow water movement	1.00	Too steep for surface application	1.00
				Too steep for sprinkler irrigation	1.00
				Filtering capacity	0.99
				Too acid	0.99
				Slow water movement	0.44
UdC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slow water movement	0.62	Very limited	
		Slope	0.50	Filtering capacity	0.99
				Too acid	0.99
				Too steep for surface application	0.68
UeC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Very limited	
		Depth to saturated zone	1.00	Slow water movement	1.00
		Slope	0.50	Depth to saturated zone	1.00
				Too acid	0.99
				Too steep for surface application	0.68
UfC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Very limited	
		Depth to saturated zone	1.00	Slow water movement	1.00
		Slope	0.50	Depth to saturated zone	1.00
				Too acid	0.99
				Too steep for surface application	0.68

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UgC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water movement	1.00	Slow water movement	1.00
		Depth to bedrock	1.00	Too acid	1.00
		Depth to saturated zone	0.98	Depth to saturated zone	0.98
		Slope	0.50	Too steep for surface application	0.68
		Too acid	0.21	Depth to bedrock	0.01
UhC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slow water movement	1.00	Slow water movement	1.00
		Depth to saturated zone	0.99	Depth to saturated zone	0.99
		Slope	0.50	Too acid	0.77
				Too steep for surface application	0.68
UiC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Somewhat limited	
		Slow water movement	1.00	Slow water movement	0.99
		Depth to bedrock	1.00	Too steep for surface application	0.68
		Slope	0.50	Depth to bedrock	0.61
				Too acid	0.42
UiD: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
		Depth to bedrock	1.00	Slow water movement	0.99
				Depth to bedrock	0.61
				Too acid	0.42

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UiF:					
Urban land-----	60	Not rated		Not rated	
Ultic Udarents-----	40	Very limited		Very limited	
		Slope	1.00	Too steep for	1.00
		Slow water	1.00	surface	
		movement		application	
		Depth to bedrock	1.00	Too steep for	1.00
		Too acid	0.67	sprinkler	
				irrigation	
				Too acid	0.99
				Slow water	0.21
				movement	
UjC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Somewhat limited	
		Slow water	1.00	Slow water	0.99
		movement		movement	
		Depth to bedrock	1.00	Too steep for	0.68
		Slope	0.50	surface	
				application	
				Too acid	0.55
UjD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slope	1.00	Too steep for	1.00
		Slow water	1.00	surface	
		movement		application	
		Depth to bedrock	1.00	Too steep for	1.00
				sprinkler	
				irrigation	
				Slow water	0.99
				movement	
				Too acid	0.55
UjF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited		Very limited	
		Slope	1.00	Too steep for	1.00
		Slow water	1.00	surface	
		movement		application	
		Depth to bedrock	1.00	Too steep for	1.00
				sprinkler	
				irrigation	
				Slow water	0.99
				movement	
				Too acid	0.55

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UkC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 0.50	Somewhat limited Slow water movement Too steep for surface application Depth to bedrock Too acid	0.99 0.68 0.61 0.42
Beasley-----	25	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 0.50	Somewhat limited Slow water movement Too steep for surface application Depth to bedrock	0.99 0.68 0.61
UIC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to bedrock Slope Stone content	1.00 1.00 0.50 0.18	Very limited Depth to bedrock Slow water movement Too steep for surface application Too acid Large stones on the surface	1.00 0.99 0.68 0.31 0.18
Caneyville-----	25	Very limited Slow water movement Depth to bedrock Slope Stone content	1.00 1.00 0.50 0.12	Very limited Depth to bedrock Slow water movement Too steep for surface application Too acid	1.00 0.99 0.68 0.31
UID:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Slow water movement Depth to bedrock Stone content	1.00 1.00 1.00 0.18	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Too acid	1.00 1.00 1.00 1.00 0.99 0.31

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
U1D: Caneyville-----	25	Very limited Slope Slow water movement Depth to bedrock Stone content	1.00 1.00 1.00 0.12	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Too acid	1.00  1.00 1.00 1.00 0.99 0.31
UmC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Slope	1.00 0.50	Somewhat limited Too steep for surface application Too acid	0.68 0.55
Crider-----	25	Very limited Slow water movement Slope	1.00 0.50	Somewhat limited Too steep for surface application Too acid	0.68 0.67
UmD: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Slow water movement	1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Too acid	1.00 1.00 0.55
Crider-----	25	Very limited Slope Slow water movement	1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Too acid	1.00 1.00 0.67
UnC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Slow water movement Slope	1.00 1.00 0.50	Somewhat limited Too acid Too steep for surface application	0.77 0.68

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UnC: Elk-----	25	Very limited Depth to saturated zone Slow water movement Slope	1.00 1.00 0.50	Somewhat limited Too acid Too steep for surface application	0.77 0.68
UoC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.68
Lawrence-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.68
UpC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.68
Lawrence-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.77 0.68

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UqC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 0.99 0.50	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 0.99 0.77 0.68
Nicholson-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 0.99 0.50	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 0.99 0.77 0.68
UrC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.99 0.68
Otwood-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too acid	1.00 1.00 0.68 0.31
UsC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.99 0.68



# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UsC:					
Otwood-----	25	Very limited Slow water movement	1.00	Very limited Slow water movement	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	0.50	Too steep for surface application	0.68
				Too acid	0.31
UtC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Slow water movement	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	0.50	Too acid	1.00
		Too acid	0.14	Too steep for surface application	0.68
Robertsville-----	25	Very limited Slow water movement	1.00	Very limited Slow water movement	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too acid	0.14	Too acid	1.00
UuC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Somewhat limited Too steep for surface application	0.68
		Slope	0.50	Too acid	0.31
Sandview-----	25	Very limited Slow water movement	1.00	Somewhat limited Too acid	0.91
		Slope	0.50	Too steep for surface application	0.68
UvC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Slow water movement	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	0.50	Too acid	0.99
				Too steep for surface application	0.68

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UvC: Sciotoville-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too acid	1.00 1.00 0.68 0.31
UwC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 0.50	Very limited Depth to bedrock Slow water movement Too steep for surface application	1.00 0.99 0.68
Shrouts-----	25	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 0.50	Very limited Depth to bedrock Slow water movement Too steep for surface application	1.00 0.99 0.68
UwD: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement	1.00 1.00 1.00 1.00 0.99
Shrouts-----	25	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement	1.00 1.00 1.00 1.00 0.99

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UxC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.99 0.68
Weinbach-----	25	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.50	Very limited Slow water movement Depth to saturated zone Too steep for surface application Too acid	1.00 1.00 0.68 0.31
UyC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slow water movement Slope	0.69 0.50	Very limited Filtering capacity Too acid Too steep for surface application	0.99 0.99 0.68
Wheeling-----	25	Somewhat limited Slow water movement Slope	0.62 0.50	Very limited Filtering capacity Too acid Too steep for surface application	0.99 0.85 0.68
UyD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Slow water movement	1.00 0.69	Very limited Too steep for surface application Too steep for sprinkler irrigation Filtering capacity Too acid	1.00 1.00 0.99 0.99

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UyD: Wheeling-----	25	Very limited Slope Slow water movement	1.00 0.62	Very limited Too steep for surface application Too steep for sprinkler irrigation Filtering capacity Too acid	1.00  1.00  0.99 0.85
UzC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slow water movement Slope	0.69 0.50	Very limited Filtering capacity Too acid Too steep for surface application	0.99  0.99 0.68
Wheeling-----	25	Somewhat limited Slow water movement Slope	0.62 0.50	Very limited Filtering capacity Too acid Too steep for surface application	0.99  0.85 0.68
W: Water-----	100	Not rated		Not rated	
WeA: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Very limited Slow water movement Depth to saturated zone Too acid	1.00 1.00 0.31
WeB: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Very limited Slow water movement Depth to saturated zone Too acid Too steep for surface application	1.00 1.00 0.31 0.08

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WfA: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.60	Very limited Slow water movement Depth to saturated zone Flooding Too acid	1.00 1.00 0.60 0.31
WfB: Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.60	Very limited Slow water movement Depth to saturated zone Flooding Too acid Too steep for surface application	1.00 1.00 0.60 0.31 0.08
WhA: Wheeling-----	90	Somewhat limited Slow water movement	0.62	Very limited Filtering capacity Too acid	0.99 0.85
WhB: Wheeling-----	90	Somewhat limited Slow water movement	0.62	Very limited Filtering capacity Too acid Too steep for surface application	0.99 0.85 0.08
WhC: Wheeling-----	90	Very limited Slope Slow water movement	1.00 0.62	Very limited Too steep for surface application Filtering capacity Too acid Too steep for sprinkler irrigation	1.00 0.99 0.85 0.50
WhD: Wheeling-----	90	Very limited Slope Slow water movement	1.00 0.62	Very limited Too steep for surface application Too steep for sprinkler irrigation Filtering capacity Too acid	1.00 1.00 0.99 0.85

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WhF: Wheeling-----	90	Very limited Slope Slow water movement Flooding	1.00 0.62 0.60	Very limited Too steep for surface application Too steep for sprinkler irrigation Filtering capacity Too acid Flooding	1.00   1.00 0.99 0.85 0.60
WkA: Wheeling-----	90	Somewhat limited Slow water movement Flooding	0.62 0.60	Very limited Filtering capacity Too acid Flooding	0.99 0.85 0.60
WkB: Wheeling-----	90	Somewhat limited Slow water movement Flooding	0.62 0.60	Very limited Filtering capacity Too acid Flooding Too steep for surface application	0.99 0.85 0.60 0.08
WkC: Wheeling-----	90	Very limited Slope Slow water movement Flooding	1.00 0.62 0.60	Very limited Too steep for surface application Filtering capacity Too acid Flooding Too steep for sprinkler irrigation	1.00  0.99 0.85 0.60 0.50
WkD: Wheeling-----	90	Very limited Slope Slow water movement Flooding	1.00 0.62 0.60	Very limited Too steep for surface application Too steep for sprinkler irrigation Filtering capacity Too acid Flooding	1.00  1.00 0.99 0.85 0.60

# Soil Survey of Jefferson County, Kentucky

Table 8.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater		Slow rate treatment of wastewater	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WkF: Wheeling-----	90	Very limited Slope Slow water movement	1.00 0.62	Very limited Too steep for surface application Too steep for sprinkler irrigation Filtering capacity Too acid	1.00  1.00 0.99 0.85
WoA: Woolper-----	80	Very limited Slow water movement	1.00	Not limited	
WoB: Woolper-----	80	Very limited Slow water movement	1.00	Somewhat limited Too steep for surface application	0.08
WoC: Woolper-----	80	Very limited Slow water movement Slope	1.00 1.00	Very limited Too steep for surface application Too steep for sprinkler irrigation	1.00 0.50
ZpA: Zipp-----	90	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
AfB: Alford-----	northern red oak---- yellow-poplar-----	--- 105	--- 114	black cherry, black locust, black walnut, eastern white pine, northern red oak, red pine, tuliptree, white ash, white oak
AfC: Alford-----	northern red oak---- yellow-poplar-----	--- 105	--- 114	black cherry, black locust, black walnut, eastern white pine, northern red oak, red pine, tuliptree, white ash, white oak
AfD: Alford-----	northern red oak---- yellow-poplar-----	--- 105	--- 114	black cherry, black locust, black walnut, eastern white pine, northern red oak, red pine, tuliptree, white ash, white oak
AfF: Alford-----	northern red oak---- yellow-poplar-----	--- 105	--- 114	black cherry, black locust, black walnut, eastern white pine, northern red oak, red pine, tuliptree, white ash, white oak
BeB: Beasley-----	black locust----- black walnut----- eastern redcedar---- hickory----- scarlet oak----- sugar maple----- white ash----- white oak----- yellow-poplar-----	--- --- 41 --- --- --- 63 65 80	--- --- 43 --- --- --- --- 43 72	eastern redcedar, Virginia pine, white ash, white oak



# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
BeC: Beasley-----	black locust----- black walnut----- eastern redcedar---- hickory----- scarlet oak----- sugar maple----- white ash----- white oak----- yellow-poplar-----	--- --- 41 --- --- --- 63 65 80	--- --- 43 --- --- --- --- 43 72	eastern redcedar, Virginia pine, white ash, white oak
BeD: Beasley-----	black locust----- black walnut----- eastern redcedar---- hickory----- scarlet oak----- sugar maple----- white ash----- white oak----- yellow-poplar-----	--- --- 41 --- --- --- 63 65 80	--- --- 43 --- --- --- --- 43 72	eastern redcedar, Virginia pine, white ash, white oak
Bo: Boonewood-----	American elm----- American sycamore--- common hackberry--- sweetgum----- white ash----- yellow-poplar-----	--- --- --- --- --- 90	--- --- --- --- --- 86	eastern cottonwood, sweetgum, white ash, yellow-poplar
CaB2: Caneyville-----	black oak----- chinkapin oak----- eastern redcedar---- hickory----- scarlet oak----- sugar maple----- white oak-----	65 44 36 --- 50 --- 60	43 29 43 --- 29 --- 43	eastern redcedar, loblolly pine, Virginia pine
CaC2: Caneyville-----	black oak----- chinkapin oak----- eastern redcedar---- hickory----- scarlet oak----- sugar maple----- white oak-----	65 44 36 --- 50 --- 60	43 29 43 --- 29 --- 43	eastern redcedar, loblolly pine, Virginia pine
CaD2: Caneyville-----	black oak----- chinkapin oak----- eastern redcedar---- hickory----- scarlet oak----- sugar maple----- white oak-----	65 44 36 --- 50 --- 60	43 29 43 --- 29 --- 43	eastern redcedar, loblolly pine, Virginia pine

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
CcF2: Caneyville-----	black oak-----	65	43	eastern redcedar, loblolly pine, Virginia pine
	chinkapin oak-----	44	29	
	eastern redcedar----	36	43	
	hickory-----	---	---	
	scarlet oak-----	50	29	
	sugar maple-----	---	---	
	white oak-----	60	43	
Rock outcrop.				
CeF: Carpenter-----	black oak-----	74	57	black walnut, eastern white pine, loblolly pine, northern red oak, white ash, white oak, yellow- poplar
	chestnut oak-----	70	57	
	hickory-----	---	---	
	northern red oak----	71	57	
	scarlet oak-----	75	57	
	Virginia pine-----	74	114	
	white oak-----	71	57	
Cm. Cemeteries				
CnF: Chagrin.				
Nelse.				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	
Co: Combs-----	American sycamore----	---	---	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black walnut-----	---	---	
	northern red oak----	90	72	
	white oak-----	---	---	
	yellow-poplar-----	115	129	
CrA: Crider-----	black oak-----	84	72	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black walnut-----	80	---	
	hickory-----	---	---	
	northern red oak----	84	72	
	sugar maple-----	---	---	
	white ash-----	87	---	
	white oak-----	72	57	
	yellow-poplar-----	97	100	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
CrB:				
Crider-----	black oak-----	84	72	black walnut,
	black walnut-----	80	---	eastern white
	hickory-----	---	---	pine, northern red
	northern red oak----	84	72	oak, white ash,
	sugar maple-----	---	---	white oak, yellow-
	white ash-----	87	---	poplar
	white oak-----	72	57	
	yellow-poplar-----	97	100	
CrC:				
Crider-----	black oak-----	84	72	black walnut,
	black walnut-----	80	---	eastern white
	hickory-----	---	---	pine, northern red
	northern red oak----	84	72	oak, white ash,
	sugar maple-----	---	---	white oak, yellow-
	white ash-----	87	---	poplar
	white oak-----	72	57	
	yellow-poplar-----	97	100	
CrD:				
Crider-----	black oak-----	84	72	black walnut,
	black walnut-----	80	---	eastern white
	hickory-----	---	---	pine, northern red
	northern red oak----	84	72	oak, white ash,
	sugar maple-----	---	---	white oak, yellow-
	white ash-----	87	---	poplar
	white oak-----	72	57	
	yellow-poplar-----	97	100	
DAM.				
Dam, large				
Dp.				
Dumps, ash				
EkA:				
Elk-----	American sycamore---	---	---	black walnut,
	black walnut-----	---	---	eastern white
	common hackberry---	---	---	pine, northern red
	pin oak-----	96	86	oak, shortleaf
	red maple-----	---	---	pine, white oak,
	yellow-poplar-----	91	100	yellow-poplar
EkB:				
Elk-----	American sycamore---	---	---	black walnut,
	black walnut-----	---	---	eastern white
	common hackberry---	---	---	pine, northern red
	pin oak-----	96	86	oak, shortleaf
	red maple-----	---	---	pine, white oak,
	white oak-----	---	---	yellow-poplar
	yellow-poplar-----	91	100	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
EkC:				
Elk-----	American sycamore---	---	---	black walnut, eastern white pine, northern red oak, shortleaf pine, white oak, yellow-poplar
	black walnut-----	---	---	
	common hackberry---	---	---	
	pin oak-----	96	86	
	red maple-----	---	---	
	white oak-----	---	---	
	yellow-poplar-----	91	100	
EkD:				
Elk-----	American sycamore---	---	---	black walnut, eastern white pine, northern red oak, shortleaf pine, white oak, yellow-poplar
	black walnut-----	---	---	
	common hackberry---	---	---	
	pin oak-----	96	86	
	red maple-----	---	---	
	white oak-----	---	---	
	yellow-poplar-----	91	100	
EoA:				
Elk-----	American sycamore---	---	---	black walnut, eastern white pine, northern red oak, shortleaf pine, white oak, yellow-poplar
	black walnut-----	---	---	
	common hackberry---	---	---	
	pin oak-----	96	86	
	red maple-----	---	---	
	yellow-poplar-----	91	100	
EoB:				
Elk-----	American sycamore---	---	---	black walnut, eastern white pine, northern red oak, shortleaf pine, white oak, yellow-poplar
	black walnut-----	---	---	
	common hackberry---	---	---	
	pin oak-----	96	86	
	red maple-----	---	---	
	white oak-----	---	---	
	yellow-poplar-----	91	100	
EoC:				
Elk-----	American sycamore---	---	---	black walnut, eastern white pine, northern red oak, shortleaf pine, white oak, yellow-poplar
	black walnut-----	---	---	
	common hackberry---	---	---	
	pin oak-----	96	86	
	red maple-----	---	---	
	white oak-----	---	---	
	yellow-poplar-----	91	100	
FaC:				
Faywood-----	chinkapin oak-----	---	---	eastern white pine, northern red oak, white oak
	northern red oak----	70	57	
	scarlet oak-----	72	57	
	southern red oak----	---	---	
	sugar maple-----	---	---	
	white oak-----	60	43	
FaD:				
Faywood-----	chinkapin oak-----	---	---	eastern white pine, northern red oak, white oak
	northern red oak----	70	57	
	scarlet oak-----	72	57	
	southern red oak----	---	---	
	sugar maple-----	---	---	
	white oak-----	60	43	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
<b>FeC3:</b>				
Faywood-----	chinkapin oak-----	---	---	eastern white pine, northern red oak, white ash, white oak
	hickory-----	---	---	
	northern red oak----	70	57	
	scarlet oak-----	72	57	
	southern red oak----	---	---	
	sugar maple-----	---	---	
	white ash-----	---	---	
	white oak-----	60	43	
<b>FeD3:</b>				
Faywood-----	chinkapin oak-----	---	---	eastern white pine, northern red oak, white ash, white oak
	hickory-----	---	---	
	northern red oak----	70	57	
	scarlet oak-----	72	57	
	southern red oak----	---	---	
	sugar maple-----	---	---	
	white ash-----	---	---	
	white oak-----	60	43	
<b>FsF:</b>				
Faywood-----	chinkapin oak-----	---	---	eastern white pine, northern red oak, white oak
	northern red oak----	70	57	
	scarlet oak-----	72	57	
	southern red oak----	---	---	
	sugar maple-----	---	---	
	white oak-----	60	43	
Shrouts-----	black oak-----	60	43	eastern redcedar, Virginia pine, white oak
	eastern redcedar----	45	57	
	scarlet oak-----	60	43	
	Virginia pine-----	60	86	
	white oak-----	---	---	
Beasley-----	black locust-----	---	---	eastern redcedar, Virginia pine, white ash, white oak
	black walnut-----	---	---	
	eastern redcedar----	41	43	
	hickory-----	---	---	
	scarlet oak-----	---	---	
	sugar maple-----	---	---	
	white ash-----	63	---	
	white oak-----	65	43	
	yellow-poplar-----	80	72	
<b>GpD:</b>				
Gilpin-----	northern red oak----	80	57	black cherry, eastern white pine, white oak, yellow-poplar
	yellow-poplar-----	95	100	
<b>GwF:</b>				
Gilpin-----	northern red oak----	80	57	black cherry, eastern white pine, white oak, yellow-poplar
	yellow-poplar-----	95	100	
Weikert-----	northern red oak----	64	43	eastern white pine, shortleaf pine, Virginia pine
	Virginia pine-----	60	86	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber  cu ft/ac	
Ha:				
Huntington-----	eastern cottonwood--	---	---	black walnut, eastern cottonwood, eastern white pine, sweetgum, yellow-poplar
	sweetgum-----	92	114	
	yellow-poplar-----	107	114	
Hf:				
Huntington-----	eastern cottonwood--	---	---	black walnut, eastern cottonwood, eastern white pine, sweetgum, yellow-poplar
	sweetgum-----	92	114	
	yellow-poplar-----	107	114	
LaA:				
Lawrence-----	black oak-----	78	57	American sycamore, eastern white pine, green ash, sweetgum, white oak, yellow-poplar
	common hackberry----	---	---	
	pin oak-----	---	---	
	red maple-----	---	---	
	sweetgum-----	89	100	
	white oak-----	74	57	
	yellow-poplar-----	85	86	
LaB:				
Lawrence-----	black oak-----	78	57	American sycamore, eastern white pine, green ash, sweetgum, white oak, yellow-poplar
	common hackberry----	---	---	
	pin oak-----	---	---	
	red maple-----	---	---	
	sweetgum-----	89	100	
	white oak-----	74	57	
	yellow-poplar-----	85	86	
LbA:				
Lawrence-----	black oak-----	78	57	American sycamore, eastern white pine, green ash, sweetgum, white oak, yellow-poplar
	common hackberry----	---	---	
	pin oak-----	---	---	
	red maple-----	---	---	
	sweetgum-----	89	100	
	white oak-----	74	57	
	yellow-poplar-----	85	86	
LbB:				
Lawrence-----	black oak-----	78	57	American sycamore, eastern white pine, green ash, sweetgum, white oak, yellow-poplar
	common hackberry----	---	---	
	pin oak-----	---	---	
	red maple-----	---	---	
	sweetgum-----	89	100	
	white oak-----	74	57	
	yellow-poplar-----	85	86	
Ld:				
Lindside-----	black walnut-----	---	---	black walnut, eastern white pine, northern red oak, shortleaf pine, white ash, yellow-poplar
	northern red oak----	86	72	
	white ash-----	85	---	
	white oak-----	85	72	
	yellow-poplar-----	95	100	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
Ln:				
Lindside-----	black walnut-----	---	---	black walnut,
	northern red oak----	86	72	eastern white
	white ash-----	85	---	pine, northern red
	white oak-----	85	72	oak, shortleaf
	yellow-poplar-----	95	100	pine, white ash, yellow-poplar
Me:				
Melvin-----	American sycamore---	---	---	American sycamore,
	black willow-----	---	---	pin oak, sweetgum,
	common hackberry---	---	---	willow oak
	hickory-----	---	---	
	pin oak-----	100	100	
	red maple-----	---	---	
Mf:				
Melvin-----	American sycamore---	---	---	American sycamore,
	black willow-----	---	---	pin oak, sweetgum,
	common hackberry---	---	---	willow oak
	hickory-----	---	---	
	pin oak-----	100	100	
	red maple-----	---	---	
Ne:				
Newark-----	eastern cottonwood--	94	114	American sycamore,
	green ash-----	---	---	eastern
	pin oak-----	100	100	cottonwood, green
	sweetgum-----	85	86	ash, sweetgum
Nf:				
Newark-----	eastern cottonwood--	94	114	American sycamore,
	green ash-----	---	---	eastern
	pin oak-----	100	100	cottonwood, green
	sweetgum-----	85	86	ash, sweetgum
NnA:				
Nicholson-----	black oak-----	78	57	eastern white pine,
	hickory-----	---	---	loblolly pine,
	northern red oak----	79	57	northern red oak,
	sweetgum-----	84	86	sweetgum, white
	white oak-----	74	57	ash, white oak,
	yellow-poplar-----	107	114	yellow-poplar
NnB:				
Nicholson-----	black oak-----	78	57	eastern white pine,
	hickory-----	---	---	loblolly pine,
	northern red oak----	79	57	northern red oak,
	sweetgum-----	84	86	sweetgum, white
	white oak-----	74	57	ash, white oak,
	yellow-poplar-----	107	114	yellow-poplar
NnC:				
Nicholson-----	black oak-----	78	57	eastern white pine,
	hickory-----	---	---	loblolly pine,
	northern red oak----	79	57	northern red oak,
	sweetgum-----	84	86	sweetgum, white
	white oak-----	74	57	ash, white oak,
	yellow-poplar-----	107	114	yellow-poplar

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
No: Nolin-----	American sycamore--- eastern cottonwood-- sweetgum----- yellow-poplar-----	--- --- 92 107	--- --- 114 114	black walnut, eastern cottonwood, eastern white pine, sweetgum, yellow-poplar
OtA: Otwood-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
OtB: Otwood-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
OtC: Otwood-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
OwA: Otwood-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
OwB: Otwood-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
OwC: Otwood-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
Pa: Patton-----	pin oak----- red maple----- sweetgum----- white oak-----	85 --- 80 75	86 --- 86 57	green ash, loblolly pine, sweetgum
Pt. Pits, quarries				
RoA: Robertsville-----	pin oak----- red maple----- Shumard's oak----- sweetgum----- yellow-poplar-----	96 --- 90 94 96	86 --- 86 114 100	American sycamore, green ash, pin oak, sweetgum, willow oak



# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
RpA: Robertsville-----	pin oak----- red maple----- Shumard's oak----- sweetgum----- yellow-poplar-----	96 --- 90 94 96	86 --- 86 114 100	American sycamore, green ash, pin oak, sweetgum, willow oak
SaB: Sandview-----	American elm----- black cherry----- black locust----- black walnut----- bur oak----- common hackberry----- hickory----- northern red oak----- white ash----- white oak-----	--- --- --- --- --- --- --- 80 80 75	--- --- --- --- --- --- --- 57 57 57	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
SaC: Sandview-----	American elm----- black cherry----- black locust----- black walnut----- bur oak----- common hackberry----- hickory----- northern red oak----- white ash----- white oak-----	--- --- --- --- --- --- --- 80 80 75	--- --- --- --- --- --- --- 57 57 57	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
ScA: Sciotoville-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
ScB: Sciotoville-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
ScC: Sciotoville-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
SdA: Sciotoville-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar
SdB: Sciotoville-----	black oak----- blackgum----- white oak----- yellow-poplar-----	72 --- 69 95	57 --- 57 100	eastern white pine, white oak, yellow- poplar

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber  cu ft/ac	
ShC3: Shrouts-----	black oak----- eastern redcedar---- scarlet oak----- Virginia pine----- white oak-----	60 45 60 60 ---	43 57 43 86 ---	eastern redcedar, Virginia pine, white oak
ShD3: Shrouts-----	black oak----- eastern redcedar---- scarlet oak----- Virginia pine----- white oak-----	60 45 60 60 ---	43 57 43 86 ---	eastern redcedar, Virginia pine, white oak
TjB: Tilsit-----	black oak----- hickory----- red maple----- shortleaf pine----- southern red oak---- Virginia pine----- white oak----- yellow-poplar-----	74 --- --- 72 65 73 68 92	57 --- --- 114 43 114 57 86	eastern white pine, shortleaf pine, white oak, yellow- poplar
TjC: Tilsit-----	black oak----- hickory----- red maple----- shortleaf pine----- southern red oak---- Virginia pine----- white oak----- yellow-poplar-----	74 --- --- 72 65 73 68 92	57 --- --- 114 43 114 57 86	eastern white pine, shortleaf pine, white oak, yellow- poplar
TjD: Tilsit-----	black oak----- hickory----- red maple----- shortleaf pine----- southern red oak---- Virginia pine----- white oak----- yellow-poplar-----	74 --- --- 72 65 73 68 92	57 --- --- 114 43 114 57 86	eastern white pine, shortleaf pine, white oak, yellow- poplar
Ua. Urban land				
UabC: Urban land.				
Haplic Udarents-----	American elm----- American sycamore--- common hackberry--- sweetgum----- white ash----- yellow-poplar-----	--- --- --- --- --- 90	--- --- --- --- --- 86	eastern cottonwood, sweetgum, white ash, yellow-poplar

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UabC: Boonewood-----	American elm----- American sycamore--- common hackberry--- sweetgum----- white ash----- yellow-poplar-----	--- --- --- --- --- 90	--- --- --- --- --- 86	eastern cottonwood, sweetgum, white ash, yellow-poplar
UacB: Urban land.				
Haplic Udarents-----	American sycamore--- black walnut----- northern red oak--- white oak----- yellow-poplar-----	--- --- 90 --- 115	--- --- 72 --- 129	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
Combs-----	American sycamore--- black walnut----- northern red oak--- white oak----- yellow-poplar-----	--- --- 90 --- 115	--- --- 72 --- 129	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
UadB: Urban land.				
Haplic Udarents-----	American sycamore--- black willow----- common hackberry--- hickory----- pin oak----- red maple-----	--- --- --- --- 100 ---	--- --- --- --- 100 ---	American sycamore, pin oak, sweetgum, willow oak
Melvin-----	American sycamore--- black willow----- common hackberry--- hickory----- pin oak----- red maple-----	--- --- --- --- 100 ---	--- --- --- --- 100 ---	American sycamore, pin oak, sweetgum, willow oak
UaeB: Urban land.				
Haplic Udarents-----	eastern cottonwood-- green ash----- pin oak----- sweetgum-----	94 --- 100 85	114 --- 100 86	American sycamore, eastern cottonwood, green ash, sweetgum
Newark-----	eastern cottonwood-- green ash----- pin oak----- sweetgum-----	94 --- 100 85	114 --- 100 86	American sycamore, eastern cottonwood, green ash, sweetgum

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UafC: Urban land.				
Haplic Udarents-----	black willow-----	---	---	American sycamore, green ash, sweetgum, willow oak
	pin oak-----	88	86	
	sweet birch-----	---	---	
	sweetgum-----	90	100	
Zipp-----	black willow-----	---	---	American sycamore, green ash, sweetgum, willow oak
	pin oak-----	88	86	
	sweet birch-----	---	---	
	sweetgum-----	90	100	
UagB: Urban land.				
Udarents-----	American elm-----	---	---	eastern cottonwood, sweetgum, white ash, yellow-poplar
	American sycamore---	---	---	
	common hackberry---	---	---	
	sweetgum-----	---	---	
	white ash-----	---	---	
	yellow-poplar-----	90	86	
UahC. Urban land-Udorthents				
UaiC. Urban land-Udorthents				
UajF. Urban land-Udorthents				
UakF. Urban land-Udorthents				
UamC: Urban land.				
Ultic Udarents-----	black oak-----	74	57	eastern white pine, shortleaf pine, white oak, yellow- poplar
	hickory-----	---	---	
	red maple-----	---	---	
	shortleaf pine-----	72	114	
	southern red oak---	65	43	
	Virginia pine-----	73	114	
	white oak-----	68	57	
	yellow-poplar-----	92	86	
Tilsit-----	black oak-----	74	57	eastern white pine, shortleaf pine, white oak, yellow- poplar
	hickory-----	---	---	
	red maple-----	---	---	
	shortleaf pine-----	72	114	
	southern red oak---	65	43	
	Virginia pine-----	73	114	
	white oak-----	68	57	
	yellow-poplar-----	92	86	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UbC: Urban land.				
Alfic Udarents-----	northern red oak----	80	57	black walnut,
	northern red oak----	80	57	eastern white
	yellow-poplar-----	90	86	pine, northern red oak, white oak, yellow-poplar
Ubd: Urban land.				
Alfic Udarents-----	northern red oak----	80	57	black walnut,
	northern red oak----	80	57	eastern white
	yellow-poplar-----	90	86	pine, northern red oak, white oak, yellow-poplar
UcC: Urban land.				
Alfic Udarents-----	northern red oak----	80	57	black walnut,
	northern red oak----	80	57	eastern white
	yellow-poplar-----	90	86	pine, northern red oak, white oak, yellow-poplar
UcF: Urban land.				
Alfic Udarents-----	northern red oak----	80	57	black walnut,
	northern red oak----	80	57	eastern white
	yellow-poplar-----	90	86	pine, northern red oak, white oak, yellow-poplar
UdC: Urban land.				
Alfic Udarents-----	northern red oak----	80	57	black walnut,
	northern red oak----	80	57	eastern white
	yellow-poplar-----	90	86	pine, northern red oak, white oak, yellow-poplar
UeC: Urban land.				
Alfic Udarents-----	pin oak-----	88	86	eastern white pine,
	sweetgum-----	88	100	green ash,
	white oak-----	75	57	sweetgum, yellow-
	yellow-poplar-----	90	86	poplar

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UfC: Urban land.				
Alfic Udarents-----	pin oak-----	88	86	eastern white pine, green ash, sweetgum, yellow- poplar
	sweetgum-----	88	100	
	white oak-----	75	57	
	yellow-poplar-----	90	86	
UgC: Urban land.				
Alfic Udarents-----	black oak-----	74	57	eastern white pine, shortleaf pine, white oak, yellow- poplar
	hickory-----	---	---	
	red maple-----	---	---	
	shortleaf pine-----	72	114	
	southern red oak----	65	43	
	Virginia pine-----	73	114	
	white oak-----	68	57	
	yellow-poplar-----	92	86	
UhC: Urban land.				
Alfic Udarents-----	black oak-----	78	57	eastern white pine, loblolly pine, northern red oak, sweetgum, white ash, white oak, yellow-poplar
	hickory-----	---	---	
	northern red oak----	79	57	
	sweetgum-----	84	86	
	white oak-----	74	57	
	yellow-poplar-----	107	114	
UiC: Urban land.				
Alfic Udarents-----	black locust-----	---	---	eastern redcedar, Virginia pine, white ash, white oak
	black walnut-----	---	---	
	eastern redcedar----	41	43	
	hickory-----	---	---	
	scarlet oak-----	---	---	
	sugar maple-----	---	---	
	white ash-----	63	---	
	white oak-----	65	43	
	yellow-poplar-----	80	72	
UiD: Urban land.				
Alfic Udarents-----	black locust-----	---	---	eastern redcedar, Virginia pine, white ash, white oak
	black walnut-----	---	---	
	eastern redcedar----	41	43	
	hickory-----	---	---	
	scarlet oak-----	---	---	
	sugar maple-----	---	---	
	white ash-----	63	---	
	white oak-----	65	43	
	yellow-poplar-----	80	72	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UiF: Urban land.				
Ultic Udarents-----	black locust-----	---	---	eastern redcedar, Virginia pine, white ash, white oak
	black walnut-----	---	---	
	eastern redcedar----	41	43	
	hickory-----	---	---	
	scarlet oak-----	---	---	
	sugar maple-----	---	---	
	white ash-----	63	---	
	white oak-----	65	43	
	yellow-poplar-----	80	72	
UjC: Urban land.				
Alfic Udarents-----	black oak-----	84	72	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black walnut-----	80	---	
	hickory-----	---	---	
	northern red oak----	84	72	
	sugar maple-----	---	---	
	white ash-----	87	---	
	white oak-----	72	57	
	yellow-poplar-----	97	100	
UjD: Urban land.				
Alfic Udarents-----	black oak-----	84	72	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black walnut-----	80	---	
	hickory-----	---	---	
	northern red oak----	84	72	
	sugar maple-----	---	---	
	white ash-----	87	---	
	white oak-----	72	57	
	yellow-poplar-----	97	100	
UjF: Urban land.				
Alfic Udarents-----	black oak-----	84	72	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black walnut-----	80	---	
	hickory-----	---	---	
	northern red oak----	84	72	
	sugar maple-----	---	---	
	white ash-----	87	---	
	white oak-----	72	57	
	yellow-poplar-----	97	100	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UkC: Urban land.				
Alfic Udarents-----	black locust-----	---	---	eastern redcedar, Virginia pine, white ash, white oak
	black walnut-----	---	---	
	eastern redcedar----	41	43	
	hickory-----	---	---	
	scarlet oak-----	---	---	
	sugar maple-----	---	---	
	white ash-----	63	---	
	white oak-----	65	43	
	yellow-poplar-----	80	72	
Beasley-----	black locust-----	---	---	eastern redcedar, Virginia pine, white ash, white oak
	black walnut-----	---	---	
	eastern redcedar----	41	43	
	hickory-----	---	---	
	scarlet oak-----	---	---	
	sugar maple-----	---	---	
	white ash-----	63	---	
	white oak-----	65	43	
	yellow-poplar-----	80	72	
U1C: Urban land.				
Alfic Udarents-----	black oak-----	65	43	eastern redcedar, loblolly pine, Virginia pine
	chinkapin oak-----	44	29	
	eastern redcedar----	36	43	
	hickory-----	---	---	
	scarlet oak-----	50	29	
	sugar maple-----	---	---	
	white oak-----	60	43	
Caneyville-----	black oak-----	65	43	eastern redcedar, loblolly pine, Virginia pine
	chinkapin oak-----	44	29	
	eastern redcedar----	36	43	
	hickory-----	---	---	
	scarlet oak-----	50	29	
	sugar maple-----	---	---	
	white oak-----	60	43	
U1D: Urban land.				
Alfic Udarents-----	black oak-----	65	43	eastern redcedar, loblolly pine, Virginia pine
	chinkapin oak-----	44	29	
	eastern redcedar----	36	43	
	hickory-----	---	---	
	scarlet oak-----	50	29	
	sugar maple-----	---	---	
	white oak-----	60	43	
Caneyville-----	black oak-----	65	43	eastern redcedar, loblolly pine, Virginia pine
	chinkapin oak-----	44	29	
	eastern redcedar----	36	43	
	hickory-----	---	---	
	scarlet oak-----	50	29	
	sugar maple-----	---	---	
	white oak-----	60	43	



# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UmC: Urban land.				
Alfic Udarents-----	black oak-----	84	72	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black walnut-----	80	---	
	hickory-----	---	---	
	northern red oak----	84	72	
	sugar maple-----	---	---	
	white ash-----	87	---	
	white oak-----	72	57	
	yellow-poplar-----	97	100	
Crider-----	black oak-----	84	72	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black walnut-----	80	---	
	hickory-----	---	---	
	northern red oak----	84	72	
	sugar maple-----	---	---	
	white ash-----	87	---	
	white oak-----	72	57	
	yellow-poplar-----	97	100	
UmD: Urban land.				
Alfic Udarents-----	black oak-----	84	72	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black walnut-----	80	---	
	hickory-----	---	---	
	northern red oak----	84	72	
	sugar maple-----	---	---	
	white ash-----	87	---	
	white oak-----	72	57	
	yellow-poplar-----	97	100	
Crider-----	black oak-----	84	72	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black walnut-----	80	---	
	hickory-----	---	---	
	northern red oak----	84	72	
	sugar maple-----	---	---	
	white ash-----	87	---	
	white oak-----	72	57	
	yellow-poplar-----	97	100	
UnC: Urban land.				
Alfic Udarents-----	American sycamore---	---	---	black walnut, eastern white pine, northern red oak, shortleaf pine, white oak, yellow-poplar
	black walnut-----	---	---	
	common hackberry---	---	---	
	pin oak-----	96	86	
	red maple-----	---	---	
	white oak-----	---	---	
	yellow-poplar-----	91	100	
Elk-----	American sycamore---	---	---	black walnut, eastern white pine, northern red oak, shortleaf pine, white oak, yellow-poplar
	black walnut-----	---	---	
	common hackberry---	---	---	
	pin oak-----	96	86	
	red maple-----	---	---	
	white oak-----	---	---	
	yellow-poplar-----	91	100	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UoC: Urban land.				
Alfic Udarents-----	black oak-----	78	57	American sycamore, eastern white pine, green ash, sweetgum, white oak, yellow-poplar
	common hackberry----	---	---	
	pin oak-----	---	---	
	red maple-----	---	---	
	sweetgum-----	89	100	
	white oak-----	74	57	
	yellow-poplar-----	85	86	
Lawrence-----	black oak-----	78	57	American sycamore, eastern white pine, green ash, sweetgum, white oak, yellow-poplar
	common hackberry----	---	---	
	pin oak-----	---	---	
	red maple-----	---	---	
	sweetgum-----	89	100	
	white oak-----	74	57	
	yellow-poplar-----	85	86	
UpC: Urban land.				
Alfic Udarents-----	black oak-----	78	57	American sycamore, eastern white pine, green ash, sweetgum, white oak, yellow-poplar
	common hackberry----	---	---	
	pin oak-----	---	---	
	red maple-----	---	---	
	sweetgum-----	89	100	
	white oak-----	74	57	
	yellow-poplar-----	85	86	
Lawrence-----	black oak-----	78	57	American sycamore, eastern white pine, green ash, sweetgum, white oak, yellow-poplar
	common hackberry----	---	---	
	pin oak-----	---	---	
	red maple-----	---	---	
	sweetgum-----	89	100	
	white oak-----	74	57	
	yellow-poplar-----	85	86	
UqC: Urban land.				
Alfic Udarents-----	black oak-----	78	57	eastern white pine, loblolly pine, northern red oak, sweetgum, white ash, white oak, yellow-poplar
	hickory-----	---	---	
	northern red oak----	79	57	
	sweetgum-----	84	86	
	white oak-----	74	57	
	yellow-poplar-----	107	114	
Nicholson-----	black oak-----	78	57	eastern white pine, loblolly pine, northern red oak, sweetgum, white ash, white oak, yellow-poplar
	hickory-----	---	---	
	northern red oak----	79	57	
	sweetgum-----	84	86	
	white oak-----	74	57	
	yellow-poplar-----	107	114	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UrC: Urban land.				
Alfic Udarents-----	black oak-----	72	57	eastern white pine, white oak, yellow- poplar
	blackgum-----	---	---	
	white oak-----	69	57	
	yellow-poplar-----	95	100	
Otwood-----	black oak-----	72	57	eastern white pine, white oak, yellow- poplar
	blackgum-----	---	---	
	white oak-----	69	57	
	yellow-poplar-----	95	100	
UsC: Urban land.				
Alfic Udarents-----	black oak-----	72	57	eastern white pine, white oak, yellow- poplar
	blackgum-----	---	---	
	white oak-----	69	57	
	yellow-poplar-----	95	100	
Otwood-----	black oak-----	72	57	eastern white pine, white oak, yellow- poplar
	blackgum-----	---	---	
	white oak-----	69	57	
	yellow-poplar-----	95	100	
UtC: Urban land.				
Alfic Udarents-----	pin oak-----	96	86	American sycamore, green ash, pin oak, sweetgum, willow oak
	red maple-----	---	---	
	Shumard's oak-----	90	86	
	sweetgum-----	94	114	
	yellow-poplar-----	96	100	
Robertsville-----	pin oak-----	96	86	American sycamore, green ash, pin oak, sweetgum, willow oak
	red maple-----	---	---	
	Shumard's oak-----	90	86	
	sweetgum-----	94	114	
	yellow-poplar-----	96	100	
UuC: Urban land.				
Alfic Udarents-----	American elm-----	---	---	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black cherry-----	---	---	
	black locust-----	---	---	
	black walnut-----	---	---	
	bur oak-----	---	---	
	common hackberry----	---	---	
	hickory-----	---	---	
	northern red oak----	80	57	
	white ash-----	80	57	
	white oak-----	75	57	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UuC:				
Sandview-----	American elm-----	---	---	black walnut, eastern white pine, northern red oak, white ash, white oak, yellow- poplar
	black cherry-----	---	---	
	black locust-----	---	---	
	black walnut-----	---	---	
	bur oak-----	---	---	
	common hackberry---	---	---	
	hickory-----	---	---	
	northern red oak---	80	57	
	white ash-----	80	57	
	white oak-----	75	57	
UvC:				
Urban land.				
Alfic Udarents-----	black oak-----	72	57	eastern white pine, white oak, yellow- poplar
	blackgum-----	---	---	
	white oak-----	69	57	
	yellow-poplar-----	95	100	
Sciotoville-----	black oak-----	72	57	eastern white pine, white oak, yellow- poplar
	blackgum-----	---	---	
	white oak-----	69	57	
	yellow-poplar-----	95	100	
UwC:				
Urban land.				
Alfic Udarents-----	black oak-----	60	43	eastern redcedar, Virginia pine, white oak
	eastern redcedar---	45	57	
	scarlet oak-----	60	43	
	Virginia pine-----	60	86	
	white oak-----	---	---	
Shrouts-----	black oak-----	60	43	eastern redcedar, Virginia pine, white oak
	eastern redcedar---	45	57	
	scarlet oak-----	60	43	
	Virginia pine-----	60	86	
	white oak-----	---	---	
UwD:				
Urban land.				
Alfic Udarents-----	black oak-----	60	43	eastern redcedar, Virginia pine, white oak
	eastern redcedar---	45	57	
	scarlet oak-----	60	43	
	Virginia pine-----	60	86	
	white oak-----	---	---	
Shrouts-----	black oak-----	60	43	eastern redcedar, Virginia pine, white oak
	eastern redcedar---	45	57	
	scarlet oak-----	60	43	
	Virginia pine-----	60	86	
	white oak-----	---	---	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
UxC: Urban land.				
Alfic Udarents-----	pin oak-----	88	86	eastern white pine, green ash, sweetgum, yellow- poplar
	sweetgum-----	88	100	
	white oak-----	75	57	
	yellow-poplar-----	90	86	
Weinbach-----	pin oak-----	88	86	eastern white pine, green ash, sweetgum, yellow- poplar
	sweetgum-----	88	100	
	white oak-----	75	57	
	yellow-poplar-----	90	86	
UyC: Urban land.				
Alfic Udarents-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	northern red oak----	80	57	
	yellow-poplar-----	90	86	
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	northern red oak----	80	57	
	yellow-poplar-----	90	86	
UyD: Urban land.				
Alfic Udarents-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	northern red oak----	80	57	
	yellow-poplar-----	90	86	
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	
UzC: Urban land.				
Alfic Udarents-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	northern red oak----	80	57	
	yellow-poplar-----	90	86	
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	northern red oak----	80	57	
	yellow-poplar-----	90	86	
W. Water				

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
WeA:				
Weinbach-----	pin oak-----	88	86	eastern white pine, green ash, sweetgum, yellow- poplar
	sweetgum-----	88	100	
	white oak-----	75	57	
	yellow-poplar-----	90	86	
WeB:				
Weinbach-----	pin oak-----	88	86	eastern white pine, green ash, sweetgum, yellow- poplar
	sweetgum-----	88	100	
	white oak-----	75	57	
	yellow-poplar-----	90	86	
WfA:				
Weinbach-----	pin oak-----	88	86	eastern white pine, green ash, sweetgum, yellow- poplar
	sweetgum-----	88	100	
	white oak-----	75	57	
	yellow-poplar-----	90	86	
WfB:				
Weinbach-----	pin oak-----	88	86	eastern white pine, green ash, sweetgum, yellow- poplar
	sweetgum-----	88	100	
	white oak-----	75	57	
	yellow-poplar-----	90	86	
WhA:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	
WhB:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	
WhC:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	northern red oak----	80	57	
	yellow-poplar-----	90	86	
WhD:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	
WhF:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
WkA:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	
WkB:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	
WkC:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	northern red oak----	80	57	
	yellow-poplar-----	90	86	
WkD:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	
WkF:				
Wheeling-----	northern red oak----	80	57	black walnut, eastern white pine, northern red oak, white oak, yellow-poplar
	yellow-poplar-----	90	86	
WoA:				
Woolper-----	black oak-----	75	57	eastern white pine, northern red oak, white ash, white oak, yellow-poplar
	black walnut-----	---	---	
	chinkapin oak-----	71	57	
	hickory-----	---	---	
	white ash-----	---	---	
	yellow buckeye-----	---	---	
WoB:				
Woolper-----	black oak-----	75	57	eastern white pine, northern red oak, white ash, white oak, yellow-poplar
	black walnut-----	---	---	
	chinkapin oak-----	71	57	
	hickory-----	---	---	
	white ash-----	---	---	
	yellow buckeye-----	---	---	
WoC:				
Woolper-----	black oak-----	75	57	eastern white pine, northern red oak, white ash, white oak, yellow-poplar
	black walnut-----	---	---	
	chinkapin oak-----	71	57	
	hickory-----	---	---	
	white ash-----	---	---	
	yellow buckeye-----	---	---	

# Soil Survey of Jefferson County, Kentucky

Table 9.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
ZpA: Zipp-----	black willow-----	---	---	American sycamore, green ash, sweetgum, willow oak
	pin oak-----	88	86	
	sweet birch-----	---	---	
	sweetgum-----	90	100	



# Soil Survey of Jefferson County, Kentucky

Table 10.--Forestland Management, Part I

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
AfC: Alford-----	90	Moderate Low strength	0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00
AfD: Alford-----	85	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
AfF: Alford-----	80	Severe Slope Low strength	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
BeB: Beasley-----	80	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
BeC: Beasley-----	80	Moderate Low strength Landslides	0.50 0.10	Moderately suited Slope Low strength Landslides	0.50 0.50 0.10	Severe Low strength	1.00
BeD: Beasley-----	80	Moderate Landslides Slope	0.50 0.50	Poorly suited Slope Low strength Landslides	1.00 0.50 0.50	Severe Low strength	1.00
Bo: Boonewood-----	90	Severe Flooding Low strength Restrictive layer	1.00 0.50 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
CaB2: Caneyville-----	80	Moderate Low strength Restrictive layer	0.50 0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
CaC2: Caneyville-----	80	Moderate Low strength Restrictive layer	0.50 0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CaD2: Caneyville-----	80	Moderate Restrictive layer Slope	0.50 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
CcF2: Caneyville-----	70	Severe Slope Low strength	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Severe Landslides Slope Low strength	1.00 1.00 0.50	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50	Severe Low strength	1.00
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	
CnF: Chagrin-----	35	Severe Flooding Landslides Low strength	1.00 0.50 0.50	Poorly suited Flooding Slope Low strength Landslides	1.00 1.00 0.50 0.50	Severe Low strength	1.00
Nelse-----	35	Severe Flooding Landslides	1.00 0.50	Poorly suited Flooding Slope Landslides	1.00 1.00 0.50	Moderate Low strength	0.50
Wheeling-----	10	Severe Flooding Landslides Slope Low strength	1.00 1.00 1.00 0.50	Poorly suited Flooding Landslides Slope Low strength	1.00 1.00 1.00 0.50	Severe Low strength	1.00
Co: Combs-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00
CrA: Crider-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
CrB: Crider-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
CrC: Crider-----	90	Moderate Low strength	0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.--Forestland Management, Part I--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CrD: Crider-----	80	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
EkB: Elk-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
EkC: Elk-----	90	Moderate Low strength	0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00
EkD: Elk-----	90	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
EoA: Elk-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00
EoB: Elk-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00
EoC: Elk-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Slope Low strength	1.00 0.50 0.50	Severe Low strength	1.00
FaC: Faywood-----	80	Moderate Low strength Restrictive layer	0.50 0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00
FaD: Faywood-----	80	Severe Restrictive layer Slope	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
FeC3: Faywood-----	85	Moderate Low strength Restrictive layer	0.50 0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map  unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FeD3: Faywood-----	80	Moderate Restrictive layer Slope	0.50 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
FsF: Faywood-----	40	Severe Slope Low strength	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
Shrouts-----	30	Severe Landslides Slope Low strength	1.00 1.00 0.50	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50	Severe Low strength	1.00
Beasley-----	25	Severe Landslides Slope Low strength	1.00 1.00 0.50	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50	Severe Low strength	1.00
GpD: Gilpin-----	80	Moderate Landslides Slope	0.50 0.50	Poorly suited Slope Low strength Landslides	1.00 0.50 0.50	Severe Low strength	1.00
GwF: Gilpin-----	45	Severe Landslides Slope Low strength	1.00 1.00 0.50	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50	Severe Low strength	1.00
Weikert-----	40	Severe Landslides Slope	1.00 1.00	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50	Severe Low strength	1.00
Ha: Huntington-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00
Hf: Huntington-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00
LaA: Lawrence-----	90	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
LaB: Lawrence-----	90	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.--Forestland Management, Part I--Continued

Map symbol and soil name	Pct. of map  unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LbA: Lawrence-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
LbB: Lawrence-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
Ld: Lindside-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00
Ln: Lindside-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00
Me: Melvin-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Wetness Low strength	1.00 1.00 0.50	Severe Low strength	1.00
Mf: Melvin-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Wetness Low strength	1.00 1.00 0.50	Severe Low strength	1.00
Ne: Newark-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
Nf: Newark-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
NnA: Nicholson-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
NnB: Nicholson-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
NnC: Nicholson-----	90	Moderate Low strength	0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.--Forestland Management, Part I--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
No: Nolin-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00
OtA: Otwood-----	90	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
OtB: Otwood-----	90	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
OtC: Otwood-----	90	Moderate Low strength	0.50	Moderately suited Slope Low strength Wetness	0.50 0.50 0.50	Severe Low strength	1.00
OwA: Otwood-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
OwB: Otwood-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
OwC: Otwood-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Slope Low strength Wetness	1.00 0.50 0.50 0.50	Severe Low strength	1.00
Pa: Patton-----	90	Moderate Low strength	0.50	Poorly suited Ponding Wetness Low strength	1.00 1.00 0.50	Severe Low strength	1.00
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	
RoA: Robertsville-----	90	Moderate Low strength	0.50	Poorly suited Wetness Low strength	1.00 0.50	Severe Low strength	1.00
RpA: Robertsville-----	90	Moderate Low strength	0.50	Poorly suited Ponding Wetness Low strength	1.00 1.00 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SaB: Sandview-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
SaC: Sandview-----	90	Moderate Low strength	0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00
ScA: Sciotoville-----	90	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
ScB: Sciotoville-----	90	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
ScC: Sciotoville-----	90	Moderate Low strength	0.50	Moderately suited Slope Low strength Wetness	0.50 0.50 0.50	Severe Low strength	1.00
SdA: Sciotoville-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
SdB: Sciotoville-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
ShC3: Shrouts-----	75	Moderate Landslides Low strength	0.50 0.50	Moderately suited Slope Low strength Landslides	0.50 0.50 0.50	Severe Low strength	1.00
ShD3: Shrouts-----	75	Severe Landslides Slope	1.00 0.50	Poorly suited Landslides Slope Low strength	1.00 1.00 0.50	Severe Low strength	1.00
TjB: Tilsit-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
TjC: Tilsit-----	90	Moderate Low strength	0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
TjD: Tilsit-----	90	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
Ua: Urban land-----	95	Not rated		Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Moderate Low strength Restrictive layer	0.50 0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50	Severe Low strength	1.00
Boonewood-----	25	Moderate Low strength Restrictive layer	0.50 0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
UacB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Slight		Well suited		Moderate Low strength	0.50
Combs-----	25	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
UadB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Moderate Low strength	0.50	Poorly suited Wetness Low strength	1.00 0.50	Severe Low strength	1.00
Melvin-----	25	Moderate Low strength	0.50	Poorly suited Wetness Low strength	1.00 0.50	Severe Low strength	1.00
UaeB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
Newark-----	25	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
UafC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Moderate Low strength Stickiness/slope	0.50 0.50	Poorly suited Wetness Low strength Slope Stickiness; high plasticity index	1.00 0.50 0.50 0.50	Severe Low strength	1.00



# Soil Survey of Jefferson County, Kentucky

Table 10.--Forestland Management, Part I--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UafC: Zipp-----	25	Moderate Low strength	0.50	Poorly suited Wetness Low strength	1.00 0.50	Severe Low strength	1.00
UagB: Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
UahC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UaiC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UajF: Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF: Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC: Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
Tilsit-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
UbC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
Ubd: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map  unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UcC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
UcF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Severe Slope Low strength	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
UdC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
UeC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Low strength	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50	Severe Low strength	1.00
UfC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Low strength	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50	Severe Low strength	1.00
UgC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
UhC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Low strength Stickiness/slope	0.50 0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
UiC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Low strength Stickiness/slope	0.50 0.50	Moderately suited Low strength Slope Stickiness; high plasticity index	0.50 0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.--Forestland Management, Part I--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UiD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Slope Stickiness/slope	0.50 0.50	Poorly suited Slope Low strength Stickiness; high plasticity index	1.00 0.50 0.50	Severe Low strength	1.00
UiF: Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Severe Slope Low strength	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
UjC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
UjD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
UjF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Severe Slope Low strength	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
UkC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength Stickiness/slope	0.50 0.50	Moderately suited Low strength Slope Stickiness; high plasticity index	0.50 0.50 0.50	Severe Low strength	1.00
Beasley-----	25	Moderate Low strength Landslides	0.50 0.10	Moderately suited Low strength Slope Landslides	0.50 0.50 0.10	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map  unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
U1C:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength Stickiness/slope Restrictive layer	0.50 0.50 0.50	Moderately suited Low strength Slope Stickiness; high plasticity index	0.50 0.50 0.50	Severe Low strength	1.00
Caneyville-----	25	Moderate Low strength Restrictive layer	0.50 0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
U1D:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Restrictive layer Slope Stickiness/slope	0.50 0.50 0.50	Poorly suited Slope Low strength Stickiness; high plasticity index	1.00 0.50 0.50	Severe Low strength	1.00
Caneyville-----	25	Moderate Restrictive layer Slope	0.50 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
UmC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
Crider-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
UmD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
Crider-----	25	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
UnC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
Elk-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UoC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50	Severe Low strength	1.00
Lawrence-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50	Severe Low strength	1.00
UpC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50	Severe Low strength	1.00
Lawrence-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50	Severe Low strength	1.00
UqC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength Stickiness/slope	0.50 0.50	Moderately suited Low strength Slope	0.50 0.50 0.50	Severe Low strength	1.00
Nicholson-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50 0.50	Severe Low strength	1.00
UrC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50	Severe Low strength	1.00
Otwood-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50	Severe Low strength	1.00
UsC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UsC: Otwood-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50	Severe Low strength	1.00
UtC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Wetness Low strength Slope	0.50 0.50 0.50	Severe Low strength	1.00
Robertsville-----	25	Moderate Low strength	0.50	Poorly suited Wetness Low strength	1.00 0.50	Severe Low strength	1.00
UuC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
Sandview-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
UvC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50	Severe Low strength	1.00
Sciotoville-----	25	Moderate Low strength	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50	Severe Low strength	1.00
UwC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength Stickiness/slope	0.50 0.50	Moderately suited Low strength Slope Stickiness; high plasticity index	0.50 0.50 0.50	Severe Low strength	1.00
Shrouds-----	25	Moderate Landslides Low strength	0.50 0.50	Moderately suited Low strength Landslides Slope	0.50 0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map  unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UwD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Slope Stickiness/slope	0.50 0.50	Poorly suited Slope Low strength Stickiness; high plasticity index	1.00 0.50 0.50	Severe Low strength	1.00
Shrouds-----	25	Severe Landslides Slope	1.00 0.50	Poorly suited Landslides Slope Low strength	1.00 1.00 0.50	Severe Low strength	1.00
UxC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50	Severe Low strength	1.00
Weinbach-----	25	Moderate Low strength	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50	Severe Low strength	1.00
UyC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
Wheeling-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
UyD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
Wheeling-----	25	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
UzC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00
Wheeling-----	25	Moderate Low strength	0.50	Moderately suited Low strength Slope	0.50 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
W: Water-----	100	Not rated		Not rated		Not rated	
WeA: Weinbach-----	90	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
WeB: Weinbach-----	90	Moderate Low strength	0.50	Moderately suited Low strength Wetness	0.50 0.50	Severe Low strength	1.00
WfA: Weinbach-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
WfB: Weinbach-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50	Severe Low strength	1.00
WhA: Wheeling-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
WhB: Wheeling-----	90	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
WhC: Wheeling-----	90	Moderate Low strength	0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00
WhD: Wheeling-----	90	Moderate Slope	0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
WhF: Wheeling-----	90	Severe Flooding Slope Low strength	1.00 1.00 0.50	Poorly suited Flooding Slope Low strength	1.00 1.00 0.50	Severe Low strength	1.00
WkA: Wheeling-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00
WkB: Wheeling-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Low strength	1.00 0.50	Severe Low strength	1.00



# Soil Survey of Jefferson County, Kentucky

Table 10.--Forestland Management, Part I--Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings		Suitability for log landings		Soil rutting hazard	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WkC: Wheeling-----	90	Severe Flooding Low strength	1.00 0.50	Poorly suited Flooding Slope Low strength	1.00 0.50 0.50	Severe Low strength	1.00
WkD: Wheeling-----	90	Severe Flooding Slope	1.00 0.50	Poorly suited Flooding Slope Low strength	1.00 1.00 0.50	Severe Low strength	1.00
WkF: Wheeling-----	90	Severe Slope Low strength	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50	Severe Low strength	1.00
WoA: Woolper-----	80	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
WoB: Woolper-----	80	Moderate Low strength	0.50	Moderately suited Low strength	0.50	Severe Low strength	1.00
WoC: Woolper-----	80	Moderate Low strength	0.50	Moderately suited Slope Low strength	0.50 0.50	Severe Low strength	1.00
ZpA: Zipp-----	90	Moderate Low strength	0.50	Poorly suited Ponding Wetness Low strength	1.00 1.00 0.50	Severe Low strength	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50
AfC: Alford-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
AfD: Alford-----	85	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
AfF: Alford-----	80	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
BeB: Beasley-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50
BeC: Beasley-----	80	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength Landslides	0.50 0.50 0.10
BeD: Beasley-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength Landslides	1.00 0.50 0.50
Bo: Boonewood-----	90	Slight		Slight		Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
CaB2: Caneyville-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50
CaC2: Caneyville-----	80	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
CaD2: Caneyville-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CcF2: Caneyville-----	70	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	
CnF: Chagrin-----	35	Slight		Severe Slope/erodibility	0.95	Poorly suited Flooding Slope Low strength Landslides	1.00 1.00 0.50 0.50
Nelse-----	35	Slight		Moderate Slope/erodibility	0.50	Poorly suited Flooding Slope Landslides	1.00 1.00 0.50
Wheeling-----	10	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Flooding Landslides Slope Low strength	1.00 1.00 1.00 0.50
Co: Combs-----	90	Slight		Slight		Poorly suited Flooding Low strength	1.00 0.50
CrA: Crider-----	90	Slight		Slight		Moderately suited Low strength	0.50
CrB: Crider-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50
CrC: Crider-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
CrD: Crider-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Slight		Slight		Moderately suited Low strength	0.50
EkB: Elk-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50
EkC: Elk-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
EkD: Elk-----	90	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
EoA: Elk-----	90	Slight		Slight		Poorly suited Flooding Low strength	1.00 0.50
EoB: Elk-----	90	Slight		Moderate Slope/erodibility	0.50	Poorly suited Flooding Low strength	1.00 0.50
EoC: Elk-----	90	Slight		Severe Slope/erodibility	0.95	Poorly suited Flooding Slope Low strength	1.00 0.50 0.50
FaC: Faywood-----	80	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
FaD: Faywood-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
FeC3: Faywood-----	85	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
FeD3: Faywood-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
<b>FsF:</b>							
Faywood-----	40	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
Shrouds-----	30	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50
Beasley-----	25	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50
<b>GpD:</b>							
Gilpin-----	80	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength Landslides	1.00 0.50 0.50
<b>GwF:</b>							
Gilpin-----	45	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50
Weikert-----	40	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Landslides Low strength	1.00 1.00 0.50
<b>Ha:</b>							
Huntington-----	90	Slight		Slight		Poorly suited Flooding Low strength	1.00 0.50
<b>Hf:</b>							
Huntington-----	90	Slight		Slight		Poorly suited Flooding Low strength	1.00 0.50
<b>LaA:</b>							
Lawrence-----	90	Slight		Slight		Moderately suited Low strength Wetness	0.50 0.50
<b>LaB:</b>							
Lawrence-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness	0.50 0.50
<b>LbA:</b>							
Lawrence-----	90	Slight		Slight		Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LbB: Lawrence-----	90	Slight		Moderate Slope/erodibility	0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
Ld: Lindside-----	90	Slight		Slight		Poorly suited Flooding Low strength	1.00 0.50
Ln: Lindside-----	90	Slight		Slight		Poorly suited Flooding Low strength	1.00 0.50
Me: Melvin-----	90	Slight		Slight		Poorly suited Flooding Wetness Low strength	1.00 1.00 0.50
Mf: Melvin-----	90	Slight		Slight		Poorly suited Flooding Wetness Low strength	1.00 1.00 0.50
Ne: Newark-----	90	Slight		Slight		Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
Nf: Newark-----	90	Slight		Slight		Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
NnA: Nicholson-----	90	Slight		Slight		Moderately suited Low strength	0.50
NnB: Nicholson-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50
NnC: Nicholson-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
No: Nolin-----	90	Slight		Slight		Poorly suited Flooding Low strength	1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OtA: Otwood-----	90	Slight		Slight		Moderately suited Low strength Wetness	0.50 0.50
OtB: Otwood-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness	0.50 0.50
OtC: Otwood-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength Wetness	0.50 0.50 0.50
OwA: Otwood-----	90	Slight		Slight		Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
OwB: Otwood-----	90	Slight		Moderate Slope/erodibility	0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
OwC: Otwood-----	90	Slight		Severe Slope/erodibility	0.95	Poorly suited Flooding Slope Low strength Wetness	1.00 0.50 0.50 0.50
Pa: Patton-----	90	Slight		Slight		Poorly suited Ponding Wetness Low strength	1.00 1.00 0.50
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	
RoA: Robertsville-----	90	Slight		Slight		Poorly suited Wetness Low strength	1.00 0.50
RpA: Robertsville-----	90	Slight		Slight		Poorly suited Ponding Wetness Low strength	1.00 1.00 0.50
SaB: Sandview-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SaC: Sandview-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
ScA: Sciotoville-----	90	Slight		Slight		Moderately suited Low strength Wetness	0.50 0.50
ScB: Sciotoville-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness	0.50 0.50
ScC: Sciotoville-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength Wetness	0.50 0.50 0.50
SdA: Sciotoville-----	90	Slight		Slight		Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
SdB: Sciotoville-----	90	Slight		Moderate Slope/erodibility	0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
ShC3: Shrouts-----	75	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength Landslides	0.50 0.50 0.50
ShD3: Shrouts-----	75	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Landslides Slope Low strength	1.00 1.00 0.50
TjB: Tilsit-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50
TjC: Tilsit-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
TjD: Tilsit-----	90	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50



# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ua:							
Urban land-----	95	Not rated		Not rated		Not rated	
UabC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50
Boonewood-----	25	Slight		Slight		Moderately suited Low strength Wetness	0.50 0.50
UacB:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Well suited	
Combs-----	25	Slight		Slight		Moderately suited Low strength	0.50
UadB:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Poorly suited Wetness Low strength	1.00 0.50
Melvin-----	25	Slight		Slight		Poorly suited Wetness Low strength	1.00 0.50
UaeB:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness	0.50 0.50
Newark-----	25	Slight		Slight		Moderately suited Low strength Wetness	0.50 0.50
UafC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Poorly suited Wetness Low strength Slope Stickiness; high plasticity index	1.00 0.50 0.50 0.50
Zipp-----	25	Slight		Slight		Poorly suited Wetness Low strength	1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UagB:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness	0.50 0.50
UahC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UaiC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UajF:							
Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF:							
Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
Tilsit-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UbC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
Ubd:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
UcC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UcF:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
UdC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UeC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50
UfC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50
UgC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UhC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UiC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Stickiness; high plasticity index	0.50 0.50 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UiD:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength Stickiness; high plasticity index	1.00 0.50 0.50
UiF:							
Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
UjC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UjD:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
UjF:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
UkC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Stickiness; high plasticity index	0.50 0.50 0.50
Beasley-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Landslides	0.50 0.50 0.10
U1C:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Stickiness; high plasticity index	0.50 0.50 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
U1C: Caneyville-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
U1D: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength Stickiness; high plasticity index	1.00 0.50 0.50
Caneyville-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
UmC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
Crider-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UmD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
Crider-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
UnC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
Elk-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UoC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UoC:							
Lawrence-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50
UpC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50
Lawrence-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50
UqC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
Nicholson-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UrC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50
Otwood-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50
UsC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50
Otwood-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Wetness	0.50 0.50 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UtC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Wetness Low strength Slope	0.50 0.50 0.50
Robertsville-----	25	Slight		Slight		Poorly suited Wetness Low strength	1.00 0.50
UuC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
Sandview-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UvC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50
Sciotoville-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50
UwC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope Stickiness; high plasticity index	0.50 0.50 0.50
Shrouts-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Landslides Slope	0.50 0.50 0.50
UwD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength Stickiness; high plasticity index	1.00 0.50 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UwD: Shrouds-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Landslides Slope Low strength	1.00 1.00 0.50
UxC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50
Weinbach-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness Slope	0.50 0.50 0.50
UyC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
Wheeling-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
UyD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
Wheeling-----	25	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
UzC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
Wheeling-----	25	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Slope	0.50 0.50
W: Water-----	100	Not rated		Not rated		Not rated	
WeA: Weinbach-----	90	Slight		Slight		Moderately suited Low strength Wetness	0.50 0.50



# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WeB: Weinbach-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength Wetness	0.50 0.50
WfA: Weinbach-----	90	Slight		Slight		Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
WfB: Weinbach-----	90	Slight		Moderate Slope/erodibility	0.50	Poorly suited Flooding Low strength Wetness	1.00 0.50 0.50
WhA: Wheeling-----	90	Slight		Slight		Moderately suited Low strength	0.50
WhB: Wheeling-----	90	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50
WhC: Wheeling-----	90	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
WhD: Wheeling-----	90	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
WhF: Wheeling-----	90	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Flooding Slope Low strength	1.00 1.00 0.50
WkA: Wheeling-----	90	Slight		Slight		Poorly suited Flooding Low strength	1.00 0.50
WkB: Wheeling-----	90	Slight		Moderate Slope/erodibility	0.50	Poorly suited Flooding Low strength	1.00 0.50
WkC: Wheeling-----	90	Slight		Severe Slope/erodibility	0.95	Poorly suited Flooding Slope Low strength	1.00 0.50 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion		Hazard of erosion on roads and trails		Suitability for roads (natural surface)	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WkD: Wheeling-----	90	Moderate Slope/erodibility	0.50	Severe Slope/erodibility	0.95	Poorly suited Flooding Slope Low strength	1.00 1.00 0.50
WkF: Wheeling-----	90	Severe Slope/erodibility	0.75	Severe Slope/erodibility	0.95	Poorly suited Slope Low strength	1.00 0.50
WoA: Woolper-----	80	Slight		Slight		Moderately suited Low strength	0.50
WoB: Woolper-----	80	Slight		Moderate Slope/erodibility	0.50	Moderately suited Low strength	0.50
WoC: Woolper-----	80	Slight		Severe Slope/erodibility	0.95	Moderately suited Slope Low strength	0.50 0.50
ZpA: Zipp-----	90	Slight		Slight		Poorly suited Ponding Wetness Low strength	1.00 1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
AfC: Alford-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
AfD: Alford-----	85	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
AfF: Alford-----	80	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Low strength	1.00 0.50
BeB: Beasley-----	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Rock fragments	0.75 0.50	Moderately suited Low strength	0.50
BeC: Beasley-----	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope Rock fragments	0.75 0.50 0.50	Moderately suited Low strength	0.50
BeD: Beasley-----	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Slope Stickiness; high plasticity index Rock fragments	0.75 0.75 0.50	Moderately suited Low strength	0.50
Bo: Boonewood-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
CaB2: Caneyville-----	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Rock fragments	0.75 0.50	Moderately suited Low strength	0.50
CaC2: Caneyville-----	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope Rock fragments	0.75 0.50 0.50	Moderately suited Low strength	0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CaD2: Caneyville-----	80	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Slope Stickiness; high plasticity index Rock fragments	0.75 0.75 0.50	Moderately suited Low strength	0.50
CcF2: Caneyville-----	70	Poorly suited Stickiness; high plasticity index Slope	0.75 0.50	Unsuited Slope Stickiness; high plasticity index Rock fragments	1.00 0.75 0.50	Poorly suited Slope Low strength	1.00 0.50
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Moderately suited Slope Stickiness; high plasticity index	0.50 0.50	Unsuited Slope Stickiness; high plasticity index Rock fragments	1.00 0.50 0.50	Moderately suited Slope Low strength	0.50 0.50
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	
CnF: Chagrin-----	35	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Nelse-----	35	Well suited		Moderately suited Slope	0.50	Well suited	
Wheeling-----	10	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Low strength	1.00 0.50
Co: Combs-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
CrA: Crider-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
CrB: Crider-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
CrC: Crider-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
CrD: Crider-----	80	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
EkB: Elk-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
EkC: Elk-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
EkD: Elk-----	90	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
EoA: Elk-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
EoB: Elk-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
EoC: Elk-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
FaC: Faywood-----	80	Moderately suited Stickiness; high plasticity index	0.50	Moderately suited Stickiness; high plasticity index Slope	0.50 0.50	Moderately suited Low strength	0.50
FaD: Faywood-----	80	Moderately suited Stickiness; high plasticity index	0.50	Poorly suited Slope Stickiness; high plasticity index	0.75 0.50	Moderately suited Low strength	0.50
FeC3: Faywood-----	85	Moderately suited Stickiness; high plasticity index	0.50	Moderately suited Stickiness; high plasticity index Slope	0.50 0.50	Moderately suited Low strength	0.50
FeD3: Faywood-----	80	Moderately suited Stickiness; high plasticity index	0.50	Poorly suited Slope Stickiness; high plasticity index	0.75 0.50	Moderately suited Low strength	0.50
FsF: Faywood-----	40	Moderately suited Stickiness; high plasticity index Slope	0.50 0.50	Unsuited Slope Stickiness; high plasticity index	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FsF: Shrouds-----	30	Poorly suited Stickiness; high plasticity index Slope	0.75 0.50	Unsuited Slope Stickiness; high plasticity index	1.00 0.75	Poorly suited Slope Low strength	1.00 0.50
Beasley-----	25	Poorly suited Stickiness; high plasticity index Slope	0.75 0.50 0.50	Unsuited Slope Stickiness; high plasticity index Rock fragments	1.00 0.75 0.50	Poorly suited Slope Low strength	1.00 0.50
GpD: Gilpin-----	80	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
GwF: Gilpin-----	45	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Low strength	1.00 0.50
Weikert-----	40	Moderately suited Slope Rock fragments	0.50 0.50	Unsuited Slope Rock fragments	1.00 0.50	Poorly suited Slope Low strength	1.00 0.50
Ha: Huntington-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
Hf: Huntington-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
LaA: Lawrence-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
LaB: Lawrence-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
LbA: Lawrence-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
LbB: Lawrence-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
Ld: Lindside-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
Ln: Lindside-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
Me: Melvin-----	90	Well suited		Well suited		Moderately suited Low strength	0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mf: Melvin-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
Ne: Newark-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
Nf: Newark-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
NnA: Nicholson-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
NnB: Nicholson-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
NnC: Nicholson-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
No: Nolin-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
OtA: Otwood-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
OtB: Otwood-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
OtC: Otwood-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
OwA: Otwood-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
OwB: Otwood-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
OwC: Otwood-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Pa: Patton-----	90	Moderately suited Stickiness; high plasticity index	0.50	Moderately suited Stickiness; high plasticity index	0.50	Moderately suited Low strength	0.50
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RoA: Robertsville-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
RpA: Robertsville-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
SaB: Sandview-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
SaC: Sandview-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
ScA: Sciotoville-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
ScB: Sciotoville-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
ScC: Sciotoville-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
SdA: Sciotoville-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
SdB: Sciotoville-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
ShC3: Shrouts-----	75	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope	0.75 0.50	Moderately suited Low strength	0.50
ShD3: Shrouts-----	75	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Slope Stickiness; high plasticity index	0.75 0.75	Moderately suited Low strength	0.50
TjB: Tilsit-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
TjC: Tilsit-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
TjD: Tilsit-----	90	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50



# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ua:							
Urban land-----	95	Not rated		Not rated		Not rated	
UabC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Boonewood-----	25	Well suited		Well suited		Moderately suited Low strength	0.50
UacB:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Well suited		Well suited		Well suited	
Combs-----	25	Well suited		Well suited		Moderately suited Low strength	0.50
UadB:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Well suited		Well suited		Moderately suited Low strength	0.50
Melvin-----	25	Well suited		Well suited		Moderately suited Low strength	0.50
UaeB:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Well suited		Well suited		Moderately suited Low strength	0.50
Newark-----	25	Well suited		Well suited		Moderately suited Low strength	0.50
UafC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope	0.75 0.50	Moderately suited Low strength Stickiness; high plasticity index	0.50 0.50
Zipp-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength	0.50
UagB:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Well suited		Well suited		Moderately suited Low strength	0.50
UahC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UaiC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UajF: Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF: Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC: Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Tilsit-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UbC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Ubd: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
UcC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UcF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Unsuited Slope	1.00	Moderately suited Slope Low strength	0.50 0.50
UdC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UeC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UfC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UgC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UhC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UiC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope Rock fragments	0.75 0.50 0.50	Moderately suited Low strength Stickiness; high plasticity index	0.50 0.50
UiD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Slope Stickiness; high plasticity index Rock fragments	0.75 0.75 0.50	Moderately suited Low strength Stickiness; high plasticity index	0.50 0.50
UiF: Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Poorly suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Low strength	1.00 0.50
UjC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UjD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UjF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Low strength	1.00 0.50
UkC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope Rock fragments	0.75 0.50 0.50	Moderately suited Low strength Stickiness; high plasticity index	0.50 0.50
Beasley-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope Rock fragments	0.75 0.50 0.50	Moderately suited Low strength	0.50
U1C: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope Rock fragments	0.75 0.50 0.50	Moderately suited Low strength Stickiness; high plasticity index	0.50 0.50
Caneyville-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope Rock fragments	0.75 0.50 0.50	Moderately suited Low strength	0.50
U1D: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Slope Stickiness; high plasticity index Rock fragments	0.75 0.75 0.50	Moderately suited Low strength Stickiness; high plasticity index	0.50 0.50
Caneyville-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Slope Stickiness; high plasticity index Rock fragments	0.75 0.75 0.50	Moderately suited Low strength	0.50
UmC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Crider-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UmD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
Crider-----	25	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
UnC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Elk-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UoC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Lawrence-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UpC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Lawrence-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UqC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Nicholson-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UrC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Otwood-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UsC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UsC: Otwood-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UtC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Robertsville-----	25	Well suited		Well suited		Moderately suited Low strength	0.50
UuC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Sandview-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UvC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Sciotoville-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UwC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope	0.75 0.50	Moderately suited Low strength Stickiness; high plasticity index	0.50 0.50
Shrouds-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index Slope	0.75 0.50	Moderately suited Low strength	0.50
UwD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Slope Stickiness; high plasticity index	0.75 0.75	Moderately suited Low strength Stickiness; high plasticity index	0.50 0.50
Shrouds-----	25	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Slope Stickiness; high plasticity index	0.75 0.75	Moderately suited Low strength	0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UxC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Weinbach-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UyC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Wheeling-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
UyD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
Wheeling-----	25	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
UzC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
Wheeling-----	25	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
W:							
Water-----	100	Not rated		Not rated		Not rated	
WeA:							
Weinbach-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
WeB:							
Weinbach-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
WfA:							
Weinbach-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
WfB:							
Weinbach-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
WhA:							
Wheeling-----	90	Well suited		Well suited		Moderately suited Low strength	0.50

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting		Suitability for mechanical planting		Suitability for use of harvesting equipment	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WhB: Wheeling-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
WhC: Wheeling-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
WhD: Wheeling-----	90	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
WhF: Wheeling-----	90	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Low strength	1.00 0.50
WkA: Wheeling-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
WkB: Wheeling-----	90	Well suited		Well suited		Moderately suited Low strength	0.50
WkC: Wheeling-----	90	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
WkD: Wheeling-----	90	Well suited		Poorly suited Slope	0.75	Moderately suited Low strength	0.50
WkF: Wheeling-----	90	Moderately suited Slope	0.50	Unsuited Slope	1.00	Poorly suited Slope Low strength	1.00 0.50
WoA: Woolper-----	80	Well suited		Well suited		Moderately suited Low strength	0.50
WoB: Woolper-----	80	Well suited		Well suited		Moderately suited Low strength	0.50
WoC: Woolper-----	80	Well suited		Moderately suited Slope	0.50	Moderately suited Low strength	0.50
ZpA: Zipp-----	90	Poorly suited Stickiness; high plasticity index	0.75	Poorly suited Stickiness; high plasticity index	0.75	Moderately suited Low strength	0.50



# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Moderate Texture/rock fragments	0.50	Low	
AfC: Alford-----	90	Moderate Texture/rock fragments	0.50	Low	
AfD: Alford-----	85	Moderate Texture/rock fragments	0.50	Low	
AfF: Alford-----	80	Low		Low	
BeB: Beasley-----	80	Low Texture/rock fragments	0.10	Low	
BeC: Beasley-----	80	Low Texture/rock fragments	0.10	Low	
BeD: Beasley-----	80	Low Texture/rock fragments	0.10	Low	
Bo: Boonewood-----	90	Low Texture/rock fragments	0.10	Low	
CaB2: Caneyville-----	80	Low		Low	
CaC2: Caneyville-----	80	Low		Low	
CaD2: Caneyville-----	80	Low		Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CcF2: Caneyville-----	70	Moderate Texture/slope/ surface depth/ rock fragments	0.50	Low	
Rock outcrop-----	20	Not rated		Not rated	
CeF: Carpenter-----	70	Low		Low	
Cm: Cemeteries-----	100	Not rated		Not rated	
CnF: Chagrin-----	35	Low Texture/rock fragments	0.10	Low	
Nelse-----	35	Low Texture/rock fragments	0.10	Low	
Wheeling-----	10	Low		Low	
Co: Combs-----	90	Low Texture/rock fragments	0.10	Low	
CrA: Crider-----	90	Low Texture/rock fragments	0.10	Low	
CrB: Crider-----	90	Low Texture/rock fragments	0.10	Low	
CrC: Crider-----	90	Low Texture/rock fragments	0.10	Low	
CrD: Crider-----	80	Low Texture/rock fragments	0.10	Low	
DAM: Dam, large-----	100	Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated	
EkA: Elk-----	90	Moderate Texture/rock fragments	0.50	Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
EkB: Elk-----	90	Moderate Texture/rock fragments	0.50	Low	
EkC: Elk-----	90	Moderate Texture/rock fragments	0.50	Low	
EkD: Elk-----	90	Moderate Texture/rock fragments	0.50	Low	
EoA: Elk-----	90	Moderate Texture/rock fragments	0.50	Low	
EoB: Elk-----	90	Moderate Texture/rock fragments	0.50	Low	
EoC: Elk-----	90	Moderate Texture/rock fragments	0.50	Low	
FaC: Faywood-----	80	Moderate Texture/rock fragments	0.50	Low	
FaD: Faywood-----	80	Moderate Texture/rock fragments	0.50	Low	
FeC3: Faywood-----	85	Low		Low	
FeD3: Faywood-----	80	Low		Low	
FsF: Faywood-----	40	Low		Low	
Shrouts-----	30	High Texture/slope/ surface depth/ rock fragments	1.00	Low	
Beasley-----	25	Low		Low	
GpD: Gilpin-----	80	Low Texture/rock fragments	0.10	Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
GwF: Gilpin-----	45	Low Texture/rock fragments	0.10	Low	
Weikert-----	40	Moderate Texture/slope/ surface depth/ rock fragments	0.50	Low	
Ha: Huntington-----	90	Low Texture/rock fragments	0.10	Low	
Hf: Huntington-----	90	Low Texture/rock fragments	0.10	Low	
LaA: Lawrence-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
LaB: Lawrence-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
LbA: Lawrence-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
LbB: Lawrence-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
Ld: Lindside-----	90	Low Texture/rock fragments	0.10	Low	
Ln: Lindside-----	90	Low Texture/rock fragments	0.10	Low	
Me: Melvin-----	90	Low		High Wetness	1.00
Mf: Melvin-----	90	Low		High Wetness	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ne: Newark-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
Nf: Newark-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
NnA: Nicholson-----	90	Low Texture/rock fragments	0.10	Low	
NnB: Nicholson-----	90	Low Texture/rock fragments	0.10	Low	
NnC: Nicholson-----	90	Low Texture/rock fragments	0.10	Low	
No: Nolin-----	90	Low Texture/rock fragments	0.10	Low	
OtA: Otwood-----	90	Moderate Texture/rock fragments	0.50	Low	
OtB: Otwood-----	90	Moderate Texture/rock fragments	0.50	Low	
OtC: Otwood-----	90	Moderate Texture/rock fragments	0.50	Low	
OwA: Otwood-----	90	Moderate Texture/rock fragments	0.50	Low	
OwB: Otwood-----	90	Moderate Texture/rock fragments	0.50	Low	
OwC: Otwood-----	90	Moderate Texture/rock fragments	0.50	Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Patton-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
Pt: Pits, quarries-----	100	Not rated		Not rated	
RoA: Robertsville-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
RpA: Robertsville-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
SaB: Sandview-----	90	Low Texture/rock fragments	0.10	Low	
SaC: Sandview-----	90	Low Texture/rock fragments	0.10	Low	
ScA: Sciotoville-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
ScB: Sciotoville-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
ScC: Sciotoville-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
SdA: Sciotoville-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
SdB: Sciotoville-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
ShC3: Shrouts-----	75	Low		Low	
ShD3: Shrouts-----	75	Low		Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
TjB: Tilsit-----	90	Low Texture/rock fragments	0.10	Low	
TjC: Tilsit-----	90	Low Texture/rock fragments	0.10	Low	
TjD: Tilsit-----	90	Low Texture/rock fragments	0.10	Low	
Ua: Urban land-----	95	Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Boonewood-----	25	Low Texture/rock fragments	0.10	Low	
UacB: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Combs-----	25	Low Texture/rock fragments	0.10	Low	
UadB: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Moderate Texture/rock fragments	0.50	High Wetness	1.00
Melvin-----	25	Low		High Wetness	1.00
UaeB: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Moderate Texture/rock fragments	0.50	High Wetness	1.00
Newark-----	25	Low Texture/rock fragments	0.10	High Wetness	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UafC:					
Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Low		High Wetness	1.00
Zipp-----	25	Low		High Wetness	1.00
UagB:					
Urban land-----	60	Not rated		Not rated	
Udarents-----	40	Moderate Texture/rock fragments	0.50	Low	
UahC:					
Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UaiC:					
Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UajF:					
Urban land-----	50	Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated	
UakF:					
Urban land-----	30	Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated	
UamC:					
Urban land-----	50	Not rated		Not rated	
Ultic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Tilsit-----	25	Low Texture/rock fragments	0.10	Low	
UbC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Low		Low	
UbD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Low		Low	



# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UcC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Low		Low	
UcF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Low		Low	
UdC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Low		Low	
UeC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Moderate Texture/rock fragments	0.50	High Wetness	1.00
UfC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Moderate Texture/rock fragments	0.50	High Wetness	1.00
UgC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Moderate Texture/rock fragments	0.50	Low	
UhC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Moderate Texture/rock fragments	0.50	Low	
UiC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Low		Low	
UdD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Low		Low	
UiF:					
Urban land-----	60	Not rated		Not rated	
Ultic Udarents-----	40	Moderate Texture/rock fragments	0.50	Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UjC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Moderate Texture/rock fragments	0.50	Low	
UjD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Moderate Texture/rock fragments	0.50	Low	
UjF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Moderate Texture/rock fragments	0.50	Low	
UkC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Low		Low	
Beasley-----	25	Low Texture/rock fragments	0.10	Low	
Ulc:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Low		Low	
Caneyville-----	25	Low		Low	
Uld:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Low		Low	
Caneyville-----	25	Low		Low	
UmC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Crider-----	25	Low Texture/rock fragments	0.10	Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UmD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Crider-----	25	Low Texture/rock fragments	0.10	Low	
UnC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Elk-----	25	Moderate Texture/rock fragments	0.50	Low	
UoC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	High Wetness	1.00
Lawrence-----	25	Low Texture/rock fragments	0.10	High Wetness	1.00
UpC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	High Wetness	1.00
Lawrence-----	25	Low Texture/rock fragments	0.10	High Wetness	1.00
UqC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Nicholson-----	25	Low Texture/rock fragments	0.10	Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UrC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Otwood-----	25	Moderate Texture/rock fragments	0.50	Low	
UsC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Otwood-----	25	Moderate Texture/rock fragments	0.50	Low	
UtC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	High Wetness	1.00
Robertsville-----	25	Low Texture/rock fragments	0.10	High Wetness	1.00
UuC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	Low	
Sandview-----	25	Low Texture/rock fragments	0.10	Low	
UvC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	High Wetness	1.00
Sciotoville-----	25	Low Texture/rock fragments	0.10	High Wetness	1.00
UwC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Low		Low	
Shrouts-----	25	Low		Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UwD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Low		Low	
Shrouts-----	25	Low		Low	
UxC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Moderate Texture/rock fragments	0.50	High Wetness	1.00
Weinbach-----	25	Low Texture/rock fragments	0.10	High Wetness	1.00
UyC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Low		Low	
Wheeling-----	25	Low Texture/rock fragments	0.10	Low	
UyD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Low		Low	
Wheeling-----	25	Low Texture/rock fragments	0.10	Low	
UzC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Low		Low	
Wheeling-----	25	Low Texture/rock fragments	0.10	Low	
W:					
Water-----	100	Not rated		Not rated	
WeA:					
Weinbach-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
WeB:					
Weinbach-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WfA: Weinbach-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
WfB: Weinbach-----	90	Low Texture/rock fragments	0.10	High Wetness	1.00
WhA: Wheeling-----	90	Low Texture/rock fragments	0.10	Low	
WhB: Wheeling-----	90	Low Texture/rock fragments	0.10	Low	
WhC: Wheeling-----	90	Low Texture/rock fragments	0.10	Low	
WhD: Wheeling-----	90	Low Texture/rock fragments	0.10	Low	
WhF: Wheeling-----	90	Low		Low	
WkA: Wheeling-----	90	Low Texture/rock fragments	0.10	Low	
WkB: Wheeling-----	90	Low Texture/rock fragments	0.10	Low	
WkC: Wheeling-----	90	Low Texture/rock fragments	0.10	Low	
WkD: Wheeling-----	90	Low Texture/rock fragments	0.10	Low	
WkF: Wheeling-----	90	Low		Low	
WoA: Woolper-----	80	Low Texture/rock fragments	0.10	Low	

# Soil Survey of Jefferson County, Kentucky

Table 10.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire		Potential for seedling mortality	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WoB: Woolper-----	80	Low Texture/rock fragments	0.10	Low	
WoC: Woolper-----	80	Low Texture/rock fragments	0.10	Low	
ZpA: Zipp-----	90	Low		High Wetness	1.00

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Not limited		Not limited		Somewhat limited Slope	0.50
AfC: Alford-----	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
AfD: Alford-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
AfF: Alford-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
BeB: Beasley-----	80	Somewhat limited Slow water movement	0.99	Somewhat limited Slow water movement	0.99	Somewhat limited Slow water movement Slope	0.99 0.50
BeC: Beasley-----	80	Somewhat limited Slow water movement Slope	0.99 0.04	Somewhat limited Slow water movement Slope	0.99 0.04	Very limited Slope Slow water movement	1.00 0.99
BeD: Beasley-----	80	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99
Bo: Boonewood-----	90	Very limited Flooding Depth to saturated zone	1.00 0.56	Somewhat limited Depth to saturated zone	0.28	Somewhat limited Flooding Depth to saturated zone	0.60 0.56
CaB2: Caneyville-----	80	Somewhat limited Slow water movement	0.99	Somewhat limited Slow water movement	0.99	Somewhat limited Slow water movement Slope Depth to bedrock	0.99 0.50 0.46
CaC2: Caneyville-----	80	Somewhat limited Slow water movement Slope	0.99 0.04	Somewhat limited Slow water movement Slope	0.99 0.04	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.46



# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CaD2: Caneyville-----	80	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.46
CcF2: Caneyville-----	70	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.46
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Slope Slow water movement	1.00 0.21	Very limited Slope Slow water movement	1.00 0.21	Very limited Slope Slow water movement	1.00 0.21
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	
CnF: Chagrin-----	35	Very limited Flooding Slope	1.00 0.91	Somewhat limited Slope Flooding	0.91 0.40	Very limited Flooding Slope	1.00 1.00
Nelse-----	35	Very limited Flooding Slope	1.00 0.91	Somewhat limited Slope Flooding	0.91 0.40	Very limited Flooding Slope	1.00 1.00
Wheeling-----	10	Very limited Flooding Slope	1.00 1.00	Very limited Slope Flooding	1.00 0.40	Very limited Flooding Slope	1.00 1.00
Co: Combs-----	90	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
CrA: Crider-----	90	Not limited		Not limited		Not limited	
CrB: Crider-----	90	Not limited		Not limited		Somewhat limited Slope	0.50
CrC: Crider-----	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
CrD: Crider-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Not limited		Not limited		Not limited	
EkB: Elk-----	90	Not limited		Not limited		Somewhat limited Slope	0.50
EkC: Elk-----	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
EkD: Elk-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
EoA: Elk-----	90	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
EoB: Elk-----	90	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding Slope	0.60 0.50
EoC: Elk-----	90	Very limited Flooding Slope	1.00 0.04	Somewhat limited Slope	0.04	Very limited Slope Flooding	1.00 0.60
FaC: Faywood-----	80	Somewhat limited Slow water movement Slope	0.99 0.04	Somewhat limited Slow water movement Slope	0.99 0.04	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.54
FaD: Faywood-----	80	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.54
FeC3: Faywood-----	85	Somewhat limited Slow water movement Slope	0.99 0.04	Somewhat limited Slow water movement Slope	0.99 0.04	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.20
FeD3: Faywood-----	80	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.20

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
<b>FsF:</b>							
Faywood-----	40	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.54
Shrouts-----	30	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.10
Beasley-----	25	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99
<b>GpD:</b>							
Gilpin-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Depth to bedrock	1.00 0.35
<b>GwF:</b>							
Gilpin-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Depth to bedrock	1.00 0.35
Weikert-----	40	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
<b>Ha:</b>							
Huntington-----	90	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
<b>Hf:</b>							
Huntington-----	90	Very limited Flooding	1.00	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
<b>LaA:</b>							
Lawrence-----	90	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone	1.00
<b>LaB:</b>							
Lawrence-----	90	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 0.50
<b>LbA:</b>							
Lawrence-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Flooding	1.00 0.60

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LbB: Lawrence-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Flooding Slope	1.00 0.60 0.50
Ld: Lindside-----	90	Very limited Flooding Depth to saturated zone	1.00 0.10	Somewhat limited Depth to saturated zone	0.05	Somewhat limited Flooding Depth to saturated zone	0.60 0.10
Ln: Lindside-----	90	Very limited Flooding Depth to saturated zone	1.00 0.10	Somewhat limited Flooding Depth to saturated zone	0.40 0.05	Very limited Flooding Depth to saturated zone	1.00 0.10
Me: Melvin-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
Mf: Melvin-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 1.00
Ne: Newark-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.96	Very limited Depth to saturated zone Flooding	1.00 0.60
Nf: Newark-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone Flooding	0.96 0.40	Very limited Depth to saturated zone Flooding	1.00 1.00
NnA: Nicholson-----	90	Somewhat limited Depth to saturated zone	0.39	Somewhat limited Depth to saturated zone	0.19	Somewhat limited Depth to saturated zone	0.39
NnB: Nicholson-----	90	Somewhat limited Depth to saturated zone	0.39	Somewhat limited Depth to saturated zone	0.19	Somewhat limited Slope Depth to saturated zone	0.50 0.39
NnC: Nicholson-----	90	Somewhat limited Depth to saturated zone Slope	0.39 0.04	Somewhat limited Depth to saturated zone Slope	0.19 0.04	Very limited Slope Depth to saturated zone	1.00 0.39

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
No: Nolin-----	90	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
OtA: Otwood-----	90	Somewhat limited Depth to saturated zone	0.67	Somewhat limited Depth to saturated zone	0.35	Somewhat limited Depth to saturated zone	0.67
OtB: Otwood-----	90	Somewhat limited Depth to saturated zone	0.67	Somewhat limited Depth to saturated zone	0.35	Somewhat limited Depth to saturated zone Slope	0.67 0.50
OtC: Otwood-----	90	Somewhat limited Depth to saturated zone Slope	0.67 0.04	Somewhat limited Depth to saturated zone Slope	0.35 0.04	Very limited Slope Depth to saturated zone	1.00 0.67
OwA: Otwood-----	90	Very limited Flooding Depth to saturated zone	1.00 0.67	Somewhat limited Depth to saturated zone	0.35	Somewhat limited Depth to saturated zone Flooding	0.67 0.60
OwB: Otwood-----	90	Very limited Flooding Depth to saturated zone	1.00 0.67	Somewhat limited Depth to saturated zone	0.35	Somewhat limited Depth to saturated zone Flooding Slope	0.67 0.60 0.50
OwC: Otwood-----	90	Very limited Flooding Depth to saturated zone Slope	1.00 0.67 0.04	Somewhat limited Depth to saturated zone Slope	0.35 0.04	Very limited Slope Depth to saturated zone Flooding	1.00 0.67 0.60
Pa: Patton-----	90	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	
RoA: Robertsville-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
RpA: Robertsville-----	90	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SaB: Sandview-----	90	Not limited		Not limited		Somewhat limited Slope	0.50
SaC: Sandview-----	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
ScA: Sciotoville-----	90	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone	1.00
ScB: Sciotoville-----	90	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 0.50
ScC: Sciotoville-----	90	Very limited Depth to saturated zone Slope	1.00 0.04	Somewhat limited Depth to saturated zone Slope	0.94 0.04	Very limited Depth to saturated zone Slope	1.00 1.00
SdA: Sciotoville-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Flooding	1.00 0.60
SdB: Sciotoville-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Flooding Slope	1.00 0.60 0.50
ShC3: Shrouts-----	75	Somewhat limited Slow water movement Slope	0.99 0.04	Somewhat limited Slow water movement Slope	0.99 0.04	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.99 0.10
ShD3: Shrouts-----	75	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.10
TjB: Tilsit-----	90	Somewhat limited Depth to saturated zone	0.16	Somewhat limited Depth to saturated zone	0.08	Somewhat limited Slope Depth to saturated zone	0.50 0.16

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
TjC: Tilsit-----	90	Somewhat limited Depth to saturated zone Slope	0.16 0.04	Somewhat limited Depth to saturated zone Slope	0.08 0.04	Very limited Slope Depth to saturated zone	1.00 0.16
TjD: Tilsit-----	90	Very limited Slope Depth to saturated zone	1.00 0.16	Very limited Slope Depth to saturated zone	1.00 0.08	Very limited Slope Depth to saturated zone	1.00 0.16
Ua: Urban land-----	95	Not rated		Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Flooding Depth to saturated zone	1.00 0.56	Somewhat limited Depth to saturated zone	0.28	Very limited Slope Depth to saturated zone Depth to bedrock	1.00 0.56 0.46
Boonewood-----	25	Very limited Flooding Depth to saturated zone	1.00 0.56	Somewhat limited Depth to saturated zone	0.28	Somewhat limited Depth to saturated zone	0.56
UacB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Flooding	1.00	Not limited		Somewhat limited Slope	0.12
Combs-----	25	Very limited Flooding	1.00	Not limited		Not limited	
UadB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Slope	1.00 0.12
Melvin-----	25	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
UaeB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.96	Very limited Depth to saturated zone Slope	1.00 0.12

# Soil Survey of Jefferson County, Kentucky

Table 11.--Recreational Development, Part I--Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UaeB: Newark-----	25	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.96	Very limited Depth to saturated zone	1.00
UafC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Slow water movement Too clayey	1.00 1.00 1.00	Very limited Depth to saturated zone Slow water movement Too clayey	1.00 1.00 1.00	Very limited Slow water movement Depth to saturated zone Slope Too clayey	1.00 1.00 1.00 1.00
Zipp-----	25	Very limited Depth to saturated zone Slow water movement Too clayey Ponding	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Slow water movement Too clayey Ponding	1.00 1.00 1.00 1.00	Very limited Slow water movement Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00 1.00
UagB: Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Very limited Flooding Slow water movement Depth to saturated zone	1.00 0.85 0.56	Somewhat limited Slow water movement Depth to saturated zone	0.85 0.28	Somewhat limited Slow water movement Depth to saturated zone Slope	0.85 0.56 0.12
UahC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UaiC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UajF: Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF: Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC: Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Somewhat limited Depth to saturated zone	0.16	Somewhat limited Depth to saturated zone	0.08	Very limited Slope Depth to saturated zone	1.00 0.16



# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UamC: Tilsit-----	25	Somewhat limited Depth to saturated zone	0.16	Somewhat limited Depth to saturated zone	0.08	Very limited Slope Depth to saturated zone	1.00 0.16
UbC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Very limited Slope	1.00
Ubd: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
UcC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slow water movement	0.44	Somewhat limited Slow water movement	0.44	Very limited Slope Slow water movement	1.00 0.44
UcF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Slow water movement	1.00 0.44	Very limited Slope Slow water movement	1.00 0.44	Very limited Slope Slow water movement	1.00 0.44
UdC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Flooding	1.00	Not limited		Very limited Slope	1.00
UeC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to saturated zone Slow water movement	1.00 0.44	Somewhat limited Depth to saturated zone Slow water movement	0.94 0.44	Very limited Depth to saturated zone Slope Slow water movement	1.00 1.00 0.44
UfC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.44	Somewhat limited Depth to saturated zone Slow water movement	0.94 0.44	Very limited Depth to saturated zone Slope Slow water movement	1.00 1.00 0.44

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UgC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slow water movement Depth to saturated zone	0.44  0.16	Somewhat limited Slow water movement Depth to saturated zone	0.44  0.08	Very limited Slope Slow water movement Depth to saturated zone	1.00  0.44  0.16
UhC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slow water movement Depth to saturated zone	0.44  0.39	Somewhat limited Slow water movement Depth to saturated zone	0.44  0.19	Very limited Slope Slow water movement Depth to saturated zone	1.00  0.44  0.39
UiC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Too clayey Slow water movement	1.00 0.99	Very limited Too clayey Slow water movement	1.00 0.99	Very limited Slope Too clayey Slow water movement	1.00 1.00 0.99
UiD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Too clayey Slow water movement	1.00 1.00 0.99	Very limited Slope Too clayey Slow water movement	1.00 1.00 0.99	Very limited Slope Too clayey Slow water movement	1.00 1.00 0.99
UiF: Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
UjC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Very limited Slope	1.00
UjD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UjF:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
UkC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too clayey Slow water movement	1.00 0.99	Very limited Too clayey Slow water movement	1.00 0.99	Very limited Slope Too clayey Slow water movement	1.00 1.00 0.99
Beasley-----	25	Somewhat limited Slow water movement	0.99	Somewhat limited Slow water movement	0.99	Very limited Slope Slow water movement	1.00 0.99
Ulc:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too clayey Slow water movement	1.00 0.99	Very limited Too clayey Slow water movement	1.00 0.99	Very limited Slope Too clayey Slow water movement Depth to bedrock	1.00 1.00 0.99 0.46
Caneyville-----	25	Somewhat limited Slow water movement	0.99	Somewhat limited Slow water movement	0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.46
Uld:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Too clayey Slow water movement	1.00 1.00 0.99	Very limited Slope Too clayey Slow water movement	1.00 1.00 0.99	Very limited Slope Too clayey Slow water movement Depth to bedrock	1.00 1.00 0.99 0.46
Caneyville-----	25	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.46
UmC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Very limited Slope	1.00
Crider-----	25	Not limited		Not limited		Very limited Slope	1.00

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UmD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Crider-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
UnC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Flooding	1.00	Not limited		Very limited Slope	1.00
Elk-----	25	Very limited Flooding	1.00	Not limited		Very limited Slope	1.00
UoC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 1.00
Lawrence-----	25	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 1.00
UpC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 1.00
Lawrence-----	25	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 1.00
UqC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone	0.39	Somewhat limited Depth to saturated zone	0.19	Very limited Slope Depth to saturated zone	1.00 0.39
Nicholson-----	25	Somewhat limited Depth to saturated zone	0.39	Somewhat limited Depth to saturated zone	0.19	Very limited Slope Depth to saturated zone	1.00 0.39

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UrC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone	0.67	Somewhat limited Depth to saturated zone	0.35	Very limited Slope Depth to saturated zone	1.00 0.67
Otwood-----	25	Somewhat limited Depth to saturated zone	0.67	Somewhat limited Depth to saturated zone	0.35	Very limited Slope Depth to saturated zone	1.00 0.67
UsC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Flooding Depth to saturated zone	1.00 0.67	Somewhat limited Depth to saturated zone	0.35	Very limited Slope Depth to saturated zone	1.00 0.67
Otwood-----	25	Very limited Flooding Depth to saturated zone	1.00 0.67	Somewhat limited Depth to saturated zone	0.35	Very limited Slope Depth to saturated zone	1.00 0.67
UtC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Slope	1.00 1.00
Robertsville-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
UuC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Very limited Slope	1.00
Sandview-----	25	Not limited		Not limited		Very limited Slope	1.00
UvC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 1.00
Sciotoville-----	25	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UwC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too clayey Slow water movement	1.00 0.99	Very limited Too clayey Slow water movement	1.00 0.99	Very limited Slope Too clayey Slow water movement Depth to bedrock	1.00 1.00 0.99 0.10
Shrouts-----	25	Somewhat limited Slow water movement	0.99	Somewhat limited Slow water movement	0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.10
UwD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Too clayey Slow water movement	1.00 1.00 0.99	Very limited Slope Too clayey Slow water movement	1.00 1.00 0.99	Very limited Slope Too clayey Slow water movement Depth to bedrock	1.00 1.00 0.99 0.10
Shrouts-----	25	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement	1.00 0.99	Very limited Slope Slow water movement Depth to bedrock	1.00 0.99 0.10
UxC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 1.00
Weinbach-----	25	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 1.00
UyC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Very limited Slope	1.00
Wheeling-----	25	Not limited		Not limited		Very limited Slope	1.00
UyD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UyD: Wheeling-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
UzC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Flooding	1.00	Not limited		Very limited Slope	1.00
Wheeling-----	25	Very limited Flooding	1.00	Not limited		Very limited Slope	1.00
W: Water-----	100	Not rated		Not rated		Not rated	
WeA: Weinbach-----	90	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone	1.00
WeB: Weinbach-----	90	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Slope	1.00 0.50
WfA: Weinbach-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Flooding	1.00 0.60
WfB: Weinbach-----	90	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Flooding Slope	1.00 0.60 0.50
WhA: Wheeling-----	90	Not limited		Not limited		Not limited	
WhB: Wheeling-----	90	Not limited		Not limited		Somewhat limited Slope	0.50
WhC: Wheeling-----	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
WhD: Wheeling-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
WhF: Wheeling-----	90	Very limited Slope Flooding	1.00 1.00	Very limited Slope	1.00	Very limited Slope Flooding	1.00 0.60

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas		Picnic areas		Playgrounds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WkA: Wheeling-----	90	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
WkB: Wheeling-----	90	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding Slope	0.60 0.50
WkC: Wheeling-----	90	Very limited Flooding Slope	1.00 0.04	Somewhat limited Slope	0.04	Very limited Slope Flooding	1.00 0.60
WkD: Wheeling-----	90	Very limited Flooding Slope	1.00 1.00	Very limited Slope	1.00	Very limited Slope Flooding	1.00 0.60
WkF: Wheeling-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
WoA: Woolper-----	80	Very limited Flooding	1.00	Not limited		Not limited	
WoB: Woolper-----	80	Very limited Flooding	1.00	Not limited		Somewhat limited Slope	0.50
WoC: Woolper-----	80	Very limited Flooding Slope	1.00 0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
ZpA: Zipp-----	90	Very limited Depth to saturated zone Slow water movement Too clayey Ponding	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Slow water movement Too clayey Ponding	1.00 1.00 1.00 1.00	Very limited Slow water movement Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00 1.00



# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Not limited		Not limited		Not limited	
AfC: Alford-----	90	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.04
AfD: Alford-----	85	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope	1.00
AfF: Alford-----	80	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 0.94	Very limited Slope	1.00
BeB: Beasley-----	80	Not limited		Not limited		Not limited	
BeC: Beasley-----	80	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.04
BeD: Beasley-----	80	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope	1.00
Bo: Boonewood-----	90	Somewhat limited Depth to saturated zone	0.01	Somewhat limited Depth to saturated zone	0.01	Somewhat limited Flooding Depth to bedrock Depth to saturated zone Droughty	0.60 0.46 0.28 0.16
CaB2: Caneyville-----	80	Not limited		Not limited		Somewhat limited Depth to bedrock	0.46
CaC2: Caneyville-----	80	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Depth to bedrock Slope	0.46 0.04
CaD2: Caneyville-----	80	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope Depth to bedrock	1.00 0.46

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CcF2: Caneyville-----	70	Very limited Water erosion Slope	1.00 1.00	Very limited Water erosion Slope	1.00 0.86	Very limited Slope Depth to bedrock	1.00 0.46
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Slope	1.00	Somewhat limited Slope	0.78	Very limited Slope Large stones content	1.00 0.03
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	
CnF: Chagrin-----	35	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding Slope	1.00 0.91
Nelse-----	35	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding Slope Droughty	1.00 0.91 0.06
Wheeling-----	10	Very limited Slope Water erosion Flooding	1.00 1.00 0.40	Very limited Water erosion Slope Flooding	1.00 0.98 0.40	Very limited Flooding Slope	1.00 1.00
Co: Combs-----	90	Not limited		Not limited		Somewhat limited Flooding	0.60
CrA: Crider-----	90	Not limited		Not limited		Not limited	
CrB: Crider-----	90	Not limited		Not limited		Not limited	
CrC: Crider-----	90	Not limited		Not limited		Somewhat limited Slope	0.04
CrD: Crider-----	80	Somewhat limited Slope	0.02	Not limited		Very limited Slope	1.00
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Not limited		Not limited		Not limited	

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EkB: Elk-----	90	Not limited		Not limited		Not limited	
EkC: Elk-----	90	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.04
EkD: Elk-----	90	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope	1.00
EoA: Elk-----	90	Not limited		Not limited		Somewhat limited Flooding	0.60
EoB: Elk-----	90	Not limited		Not limited		Somewhat limited Flooding	0.60
EoC: Elk-----	90	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Flooding Slope	0.60 0.04
FaC: Faywood-----	80	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Depth to bedrock Slope	0.54 0.04
FaD: Faywood-----	80	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope Depth to bedrock	1.00 0.54
FeC3: Faywood-----	85	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Depth to bedrock Slope	0.20 0.04
FeD3: Faywood-----	80	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope Depth to bedrock	1.00 0.20
FsF: Faywood-----	40	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 0.94	Very limited Slope Depth to bedrock	1.00 0.54
Shrouts-----	30	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 0.94	Very limited Slope Depth to bedrock	1.00 0.10
Beasley-----	25	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 0.94	Very limited Slope	1.00

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GpD: Gilpin-----	80	Somewhat limited Slope	0.24	Not limited		Very limited Slope Depth to bedrock	1.00 0.35
GwF: Gilpin-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Depth to bedrock	1.00 0.35
Weikert-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Depth to bedrock Droughty Large stones content	1.00 1.00 1.00 0.01
Ha: Huntington-----	90	Not limited		Not limited		Somewhat limited Flooding	0.60
Hf: Huntington-----	90	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
LaA: Lawrence-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
LaB: Lawrence-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
LbA: Lawrence-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
LbB: Lawrence-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
Ld: Lindside-----	90	Not limited		Not limited		Somewhat limited Flooding Depth to saturated zone	0.60 0.05
Ln: Lindside-----	90	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding Depth to saturated zone	1.00 0.05

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Me: Melvin-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
Mf: Melvin-----	90	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Flooding Depth to saturated zone	1.00 1.00
Ne: Newark-----	90	Somewhat limited Depth to saturated zone	0.92	Somewhat limited Depth to saturated zone	0.92	Somewhat limited Depth to saturated zone Flooding	0.96 0.60
Nf: Newark-----	90	Somewhat limited Depth to saturated zone Flooding	0.92 0.40	Somewhat limited Depth to saturated zone Flooding	0.92 0.40	Very limited Flooding Depth to saturated zone	1.00 0.96
NnA: Nicholson-----	90	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.19
NnB: Nicholson-----	90	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.19
NnC: Nicholson-----	90	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Depth to saturated zone Slope	0.19 0.04
No: Nolin-----	90	Not limited		Not limited		Somewhat limited Flooding	0.60
OtA: Otwood-----	90	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.35
OtB: Otwood-----	90	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.35
OtC: Otwood-----	90	Very limited Water erosion Depth to saturated zone	1.00 0.04	Very limited Water erosion Depth to saturated zone	1.00 0.04	Somewhat limited Depth to saturated zone Slope	0.35 0.04

# Soil Survey of Jefferson County, Kentucky

Table 11.--Recreational Development, Part II--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OwA: Otwood-----	90	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Flooding Depth to saturated zone	0.60 0.35
OwB: Otwood-----	90	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Flooding Depth to saturated zone	0.60 0.35
OwC: Otwood-----	90	Very limited Water erosion Depth to saturated zone	1.00 0.04	Very limited Water erosion Depth to saturated zone	1.00 0.04	Somewhat limited Flooding Depth to saturated zone Slope	0.60 0.35 0.04
Pa: Patton-----	90	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	
RoA: Robertsville-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
RpA: Robertsville-----	90	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00
SaB: Sandview-----	90	Not limited		Not limited		Not limited	
SaC: Sandview-----	90	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.04
ScA: Sciotoville-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
ScB: Sciotoville-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
ScC: Sciotoville-----	90	Very limited Water erosion Depth to saturated zone	1.00 0.86	Very limited Water erosion Depth to saturated zone	1.00 0.86	Somewhat limited Depth to saturated zone Slope	0.94 0.04

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SdA: Sciotoville-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
SdB: Sciotoville-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
ShC3: Shrouts-----	75	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Depth to bedrock Slope	0.10 0.04
ShD3: Shrouts-----	75	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope Depth to bedrock	1.00 0.10
TjB: Tilsit-----	90	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.08
TjC: Tilsit-----	90	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Depth to saturated zone Slope	0.08 0.04
TjD: Tilsit-----	90	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope Depth to saturated zone	1.00 0.08
Ua: Urban land-----	95	Not rated		Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents----	25	Somewhat limited Depth to saturated zone	0.01	Somewhat limited Depth to saturated zone	0.01	Somewhat limited Droughty Depth to bedrock Depth to saturated zone	0.74 0.46 0.28
Boonewood-----	25	Somewhat limited Depth to saturated zone	0.01	Somewhat limited Depth to saturated zone	0.01	Somewhat limited Depth to bedrock Depth to saturated zone Droughty	0.46 0.28 0.16

# Soil Survey of Jefferson County, Kentucky

Table 11.--Recreational Development, Part II--Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UacB:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Not limited		Not limited		Not limited	
Combs-----	25	Not limited		Not limited		Not limited	
UadB:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Melvin-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
UaeB:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Somewhat limited Depth to saturated zone	0.92	Somewhat limited Depth to saturated zone	0.92	Somewhat limited Depth to saturated zone	0.96
Newark-----	25	Somewhat limited Depth to saturated zone	0.92	Somewhat limited Depth to saturated zone	0.92	Somewhat limited Depth to saturated zone	0.96
UafC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone Too clayey	1.00 1.00
Zipp-----	25	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00
UagB:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Somewhat limited Depth to saturated zone	0.01	Somewhat limited Depth to saturated zone	0.01	Somewhat limited Depth to saturated zone Droughty	0.28 0.09
UahC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UaiC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	



# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UajF:							
Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF:							
Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.08
Tilsit-----	25	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.08
UbC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Not limited	
Ubd:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slope	0.24	Not limited		Very limited Slope	1.00
UcC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Not limited	
UcF:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Somewhat limited Slope	0.32	Very limited Slope	1.00
UdC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Not limited	
UeC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
UfC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UgC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.08
UhC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.19
UiC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Too clayey	1.00	Very limited Too clayey	1.00	Very limited Too clayey Large stones content	1.00 0.03
UiD:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Too clayey Slope	1.00 0.24	Very limited Too clayey	1.00	Very limited Slope Too clayey Large stones content	1.00 1.00 0.03
UiF:							
Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 0.94	Very limited Slope	1.00
UjC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Not limited	
UjD:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slope	0.24	Not limited		Very limited Slope	1.00
UjF:							
Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UkC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too clayey	1.00	Very limited Too clayey	1.00	Very limited Too clayey Large stones content	1.00 0.03
Beasley-----	25	Not limited		Not limited		Not limited	
U1C: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too clayey	1.00	Very limited Too clayey	1.00	Very limited Too clayey Depth to bedrock Large stones content	1.00 0.46 0.38
Caneyville-----	25	Not limited		Not limited		Somewhat limited Depth to bedrock	0.46
U1D: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too clayey Slope	1.00 0.24	Very limited Too clayey	1.00	Very limited Slope Too clayey Depth to bedrock Large stones content	1.00 1.00 0.46 0.38
Caneyville-----	25	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope Depth to bedrock	1.00 0.46
UmC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Not limited	
Crider-----	25	Not limited		Not limited		Not limited	
UmD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope	0.24	Not limited		Very limited Slope	1.00
Crider-----	25	Somewhat limited Slope	0.24	Not limited		Very limited Slope	1.00
UnC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Not limited	
Elk-----	25	Not limited		Not limited		Not limited	

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UoC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
Lawrence-----	25	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
UpC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
Lawrence-----	25	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
UqC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.19
Nicholson-----	25	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.19
UrC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.35
Otwood-----	25	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.35
UsC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.35
Otwood-----	25	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.04	Somewhat limited Depth to saturated zone	0.35

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UtC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Robertsville-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
UuC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Not limited	
Sandview-----	25	Not limited		Not limited		Not limited	
UvC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
Sciotoville-----	25	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
UwC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too clayey	1.00	Very limited Too clayey	1.00	Very limited Too clayey Depth to bedrock	1.00 0.10
Shrouts-----	25	Not limited		Not limited		Somewhat limited Depth to bedrock	0.10
UwD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Too clayey Slope	1.00 0.24	Very limited Too clayey	1.00	Very limited Slope Too clayey Depth to bedrock	1.00 1.00 0.10
Shrouts-----	25	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope Depth to bedrock	1.00 0.10
UxC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
Weinbach-----	25	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UyC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Not limited	
Wheeling-----	25	Not limited		Not limited		Not limited	
UyD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope	0.24	Not limited		Very limited Slope	1.00
Wheeling-----	25	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope	1.00
UzC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Not limited	
Wheeling-----	25	Not limited		Not limited		Not limited	
W:							
Water-----	100	Not rated		Not rated		Not rated	
WeA:							
Weinbach-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
WeB:							
Weinbach-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.94
WfA:							
Weinbach-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
WfB:							
Weinbach-----	90	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
WhA:							
Wheeling-----	90	Not limited		Not limited		Not limited	
WhB:							
Wheeling-----	90	Not limited		Not limited		Not limited	
WhC:							
Wheeling-----	90	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.04

# Soil Survey of Jefferson County, Kentucky

Table 11.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails		Off-road motorcycle trails		Golf fairways	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WhD: Wheeling-----	90	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope	1.00
WhF: Wheeling-----	90	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope Flooding	1.00 0.60
WkA: Wheeling-----	90	Not limited		Not limited		Somewhat limited Flooding	0.60
WkB: Wheeling-----	90	Not limited		Not limited		Somewhat limited Flooding	0.60
WkC: Wheeling-----	90	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Flooding Slope	0.60 0.04
WkD: Wheeling-----	90	Very limited Water erosion Slope	1.00 0.24	Very limited Water erosion	1.00	Very limited Slope Flooding	1.00 0.60
WkF: Wheeling-----	90	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
WoA: Woolper-----	80	Not limited		Not limited		Not limited	
WoB: Woolper-----	80	Not limited		Not limited		Not limited	
WoC: Woolper-----	80	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.04
ZpA: Zipp-----	90	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat

(See text for definitions of terms used in this table. Absence of an entry indicates that no rating is applicable)

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
AfB: Alford-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
AfC: Alford-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
AfD: Alford-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
AfF: Alford-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
BeB: Beasley-----	Fair	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
BeC: Beasley-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
BeD: Beasley-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
Bo: Boonewood-----	Fair	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
CaB2: Caneyville-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
CaC2: Caneyville-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
CaD2: Caneyville-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
CcF2: Caneyville-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
Rock outcrop.										
CeF: Carpenter-----	Very poor	Poor	Good	Good	Good	Very poor	Very poor	Poor	Good	Very poor
Cm. Cementeries										



# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
CnF: Chagrín-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
Nelse-----	Fair	Good	Good	Good	Fair	Very poor	Very poor	Good	Good	Very poor
Wheeling-----	Fair	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
Co: Combs-----	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Very poor
CrA: Crider-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
CrB: Crider-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
CrC: Crider-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
CrD: Crider-----	Poor	Fair	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
DAM. Dam, large										
Dp. Dumps, ash										
EkA: Elk-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
EkB: Elk-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
EkC: Elk-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
EkD: Elk-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
EoA: Elk-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
EoB: Elk-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor

# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
EoC: Elk-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
FaC: Faywood-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
FaD: Faywood-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
FeC3: Faywood-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
FeD3: Faywood-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
FsF: Faywood-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
Shrouds-----	Poor	Fair	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
Beasley-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
GpD: Gilpin-----	Poor	Fair	Good	Fair	Fair	Very poor	Very poor	Fair	Fair	Very poor
GwF: Gilpin-----	Poor	Fair	Good	Fair	Fair	Very poor	Very poor	Fair	Fair	Very poor
Weikert-----	Very poor	Poor	Poor	Very poor	Very poor	Very poor	Very poor	Poor	Very poor	Very poor
Ha: Huntington-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
Hf: Huntington-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
LaA: Lawrence-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
LaB: Lawrence-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
LbA: Lawrence-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
LbB: Lawrence-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair

# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
Ld: Lindside-----	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
Ln: Lindside-----	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
Me: Melvin-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
Mf: Melvin-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
Ne: Newark-----	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Good	Fair
Nf: Newark-----	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Good	Fair
NnA: Nicholson-----	Fair	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
NnB: Nicholson-----	Fair	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
NnC: Nicholson-----	Fair	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
No: Nolin-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
OtA: Otwood-----	Poor	Fair	Fair	Good	Good	Poor	Very poor	Fair	Good	Very poor
OtB: Otwood-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
OtC: Otwood-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
OwA: Otwood-----	Poor	Fair	Fair	Good	Good	Poor	Very poor	Fair	Good	Very poor
OwB: Otwood-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
OwC: Otwood-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
Pa: Patton-----	Good	Good	Good	Fair	Fair	Good	Good	Good	Fair	Good
Pt. Pits, quarries										

# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
RoA: Robertsville-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Poor	Fair	Good
RpA: Robertsville-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Poor	Fair	Good
SaB: Sandview-----	Good	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
SaC: Sandview-----	Good	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
ScA: Sciotoville-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
ScB: Sciotoville-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
ScC: Sciotoville-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
SdA: Sciotoville-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
SdB: Sciotoville-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
ShC3: Shrouts-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
ShD3: Shrouts-----	Poor	Fair	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
TjB: Tilsit-----	Fair	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
TjC: Tilsit-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
TjD: Tilsit-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
Ua. Urban land.										

# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
UabC: Urban land.  Haplic Udarents.  Boonewood-----	Fair	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
UacB: Urban land.  Haplic Udarents.  Combs-----	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Very poor
UadB: Urban land.  Haplic Udarents.  Melvin-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good
UaeB: Urban land.  Haplic Udarents.  Newark-----	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Good	Fair
UafC: Urban land.  Haplic Udarents.  Zipp-----	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
UagB. Urban land-Udarents										
UahC. Urban land- Udorthents										
UaiC. Urban land- Udorthents										
UajF. Urbban land- Udorthents										
UakF. Urban land- Udorthents										

# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
UamC: Urban land.										
Ultic Udarents.										
Tilsit-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
UbC. Urban land-Alfic Udarents										
Ubd. Urban land-Alfic Udarents										
UcC. Urban land-Alfic Udarents										
UcF. Urban land-Alfic Udarents										
UdC. Urban land-Alfic Udarents										
UeC. Urban land-Alfic Udarents										
UfC. Urban land-Alfic Udarents										
UgC. Urban land-Alfic Udarents										
UhC. Urban land-Alfic Udarents										
UiC. Urban land-Alfic Udarents										
UiD. Urban land-Alfic Udarents										
UiF. Urban land-Ultic Udarents										
UjC. Urban land-Alfic Udarents										

# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
UjD. Urban land-Alfic Udarents										
UjF. Urban land-Alfic Udarents										
UkC: Urban land.  Alfic Udarents.										
Beasley-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
U1C: Urban land.  Alfic Udarents.										
Caneyville-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
U1D: Urban land.  Alfic Udarents.										
Caneyville-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
UmC: Urban land.  Alfic Udarents.										
Crider-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
UmD: Urban land.  Alfic Udarents.										
Crider-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
UnC: Urban land.  Alfic Udarents.										
Elk-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor

# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
UoC: Urban land.										
Alfic Udarents.										
Lawrence-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
UpC: Urban land.										
Alfic Udarents.										
Lawrence-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
UqC: Urban land.										
Alfic Udarents.										
Nicholson-----	Fair	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
UrC: Urban land.										
Alfic Udarents.										
Otwood-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
UsC: Urban land.										
Alfic Udarents.										
Otwood-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
UtC: Urban land.										
Alfic Udarents.										
Robertsville-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Poor	Fair	Good
UuC: Urban land.										
Alfic Udarents.										
Sandview-----	Good	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
UvC: Urban land.										
Alfic Udarents.										
Sciotoville-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor



# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
UwC: Urban land.										
Alfic Udarents.										
Shrouts-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
UwD: Urban land.										
Alfic Udarents.										
Shrouts-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
UxC: Urban land.										
Alfic Udarents.										
Weinbach-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
UyC: Urban land.										
Alfic Udarents.										
Wheeling-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
UyD: Urban land.										
Alfic Udarents.										
Wheeling-----	Poor	Fair	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
UzC: Urban land.										
Alfic Udarents.										
Wheeling-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
W. Water										
WeA: Weinbach-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
WeB: Weinbach-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
WfA: Weinbach-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
WfB: Weinbach-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair

# Soil Survey of Jefferson County, Kentucky

Table 12.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hard- wood trees	Conif- erous plants	Wetland plants	Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
WhA: Wheeling-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
WhB: Wheeling-----	Fair	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
WhC: Wheeling-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
WhD: Wheeling-----	Poor	Fair	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
WhF: Wheeling-----	Poor	Fair	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
WkA: Wheeling-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
WkB: Wheeling-----	Fair	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
WkC: Wheeling-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
WkD: Wheeling-----	Poor	Fair	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
WkF: Wheeling-----	Very poor	Fair	Good	Good	Good	Very poor	Very poor	Fair	Good	Very poor
WoA: Woolper-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
WoB: Woolper-----	Good	Good	Good	Good	Good	Poor	Very poor	Good	Good	Very poor
WoC: Woolper-----	Fair	Good	Good	Good	Good	Very poor	Very poor	Good	Good	Very poor
ZpA: Zipp-----	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50
AfC: Alford-----	90	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Shrink-swell Slope	0.50 0.04	Very limited Slope Shrink-swell	1.00 0.50
AfD: Alford-----	85	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
AfF: Alford-----	80	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
BeB: Beasley-----	80	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50
BeC: Beasley-----	80	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Shrink-swell Slope	0.50 0.04	Very limited Slope Shrink-swell	1.00 0.50
BeD: Beasley-----	80	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
Bo: Boonewood-----	90	Very limited Flooding Depth to saturated zone Depth to hard bedrock	1.00 0.56 0.46	Very limited Flooding Depth to saturated zone Depth to hard bedrock	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Depth to hard bedrock	1.00 0.56 0.46
CaB2: Caneyville-----	80	Somewhat limited Shrink-swell Depth to hard bedrock	0.50 0.46	Very limited Depth to hard bedrock Shrink-swell	1.00 0.50	Somewhat limited Shrink-swell Depth to hard bedrock	0.50 0.46
CaC2: Caneyville-----	80	Somewhat limited Shrink-swell Depth to hard bedrock Slope	0.50 0.46 0.04	Very limited Depth to hard bedrock Shrink-swell Slope	1.00 0.50 0.04	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.46

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CaD2: Caneyville-----	80	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.46	Very limited Depth to hard bedrock Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.46
CcF2: Caneyville-----	70	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.46	Very limited Depth to hard bedrock Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.46
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	
CnF: Chagrin-----	35	Very limited Flooding Slope	1.00 0.91	Very limited Flooding Slope	1.00 0.91	Very limited Flooding Slope	1.00 1.00
Nelse-----	35	Very limited Flooding Slope	1.00 0.91	Very limited Flooding Slope	1.00 0.91	Very limited Flooding Slope	1.00 1.00
Wheeling-----	10	Very limited Flooding Slope	1.00 1.00	Very limited Flooding Slope	1.00 1.00	Very limited Flooding Slope	1.00 1.00
Co: Combs-----	90	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.21	Very limited Flooding	1.00
CrA: Crider-----	90	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50
CrB: Crider-----	90	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50
CrC: Crider-----	90	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Shrink-swell Slope	0.50 0.04	Very limited Slope Shrink-swell	1.00 0.50
CrD: Crider-----	80	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Not limited		Somewhat limited Depth to saturated zone	0.43	Not limited	
EkB: Elk-----	90	Not limited		Somewhat limited Depth to saturated zone	0.43	Not limited	
EkC: Elk-----	90	Somewhat limited Slope	0.04	Somewhat limited Depth to saturated zone Slope	0.43 0.04	Very limited Slope	1.00
EkD: Elk-----	90	Very limited Slope	1.00	Very limited Slope Depth to saturated zone	1.00 0.43	Very limited Slope	1.00
EoA: Elk-----	90	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.43	Very limited Flooding	1.00
EoB: Elk-----	90	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.43	Very limited Flooding	1.00
EoC: Elk-----	90	Very limited Flooding Slope	1.00 0.04	Very limited Flooding Depth to saturated zone Slope	1.00 0.43 0.04	Very limited Flooding Slope	1.00 1.00
FaC: Faywood-----	80	Somewhat limited Depth to hard bedrock Shrink-swell Slope	0.54 0.50 0.04	Very limited Depth to hard bedrock Shrink-swell Slope	1.00 0.50 0.04	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.54 0.50
FaD: Faywood-----	80	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.54 0.50	Very limited Depth to hard bedrock Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.54 0.50

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FeC3: Faywood-----	85	Somewhat limited Shrink-swell Depth to hard bedrock Slope	0.50 0.20 0.04	Very limited Depth to hard bedrock Shrink-swell Slope	1.00 0.50 0.04	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.20
FeD3: Faywood-----	80	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.20	Very limited Depth to hard bedrock Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.20
FsF: Faywood-----	40	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.54 0.50	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 1.00 0.50	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.54 0.50
Shrouds-----	30	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell Depth to soft bedrock	1.00 0.50 0.10	Very limited Slope Shrink-swell	1.00 0.50
Beasley-----	25	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
GpD: Gilpin-----	80	Very limited Slope	1.00	Very limited Slope Depth to soft bedrock	1.00 0.35	Very limited Slope	1.00
GwF: Gilpin-----	45	Very limited Slope	1.00	Very limited Slope Depth to soft bedrock	1.00 0.35	Very limited Slope	1.00
Weikert-----	40	Very limited Slope Depth to soft bedrock	1.00 0.50	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Slope Depth to soft bedrock	1.00 1.00
Ha: Huntington-----	90	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.38	Very limited Flooding	1.00
Hf: Huntington-----	90	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.38	Very limited Flooding	1.00

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LaA: Lawrence-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
LaB: Lawrence-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
LbA: Lawrence-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
LbB: Lawrence-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Ld: Lindside-----	90	Very limited Flooding Depth to saturated zone	1.00 0.10	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.10
Ln: Lindside-----	90	Very limited Flooding Depth to saturated zone	1.00 0.10	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.10
Me: Melvin-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Mf: Melvin-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Ne: Newark-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Nf: Newark-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NnA: Nicholson-----	90	Somewhat limited Depth to saturated zone	0.39	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.39
NnB: Nicholson-----	90	Somewhat limited Depth to saturated zone	0.39	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.39
NnC: Nicholson-----	90	Somewhat limited Depth to saturated zone Slope	0.39 0.04	Very limited Depth to saturated zone Slope	1.00 0.04	Very limited Slope Depth to saturated zone	1.00 0.39
No: Nolin-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
OtA: Otwood-----	90	Somewhat limited Depth to saturated zone Shrink-swell	0.67 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Shrink-swell	0.67 0.50
OtB: Otwood-----	90	Somewhat limited Depth to saturated zone Shrink-swell	0.67 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Shrink-swell	0.67 0.50
OtC: Otwood-----	90	Somewhat limited Depth to saturated zone Shrink-swell Slope	0.67 0.50 0.04	Very limited Depth to saturated zone Shrink-swell Slope	1.00 0.50 0.04	Very limited Slope Depth to saturated zone Shrink-swell	1.00 0.67 0.50
OwA: Otwood-----	90	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 0.67 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 0.67 0.50
OwB: Otwood-----	90	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 0.67 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 0.67 0.50
OwC: Otwood-----	90	Very limited Flooding Depth to saturated zone Shrink-swell Slope	1.00 0.67 0.50 0.04	Very limited Flooding Depth to saturated zone Shrink-swell Slope	1.00 1.00 0.50 0.04	Very limited Flooding Slope Depth to saturated zone Shrink-swell	1.00 1.00 0.67 0.50



# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Patton-----	90	Very limited Depth to saturated zone Ponding Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Shrink-swell	1.00 1.00 0.50
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	
RoA: Robertsville-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
RpA: Robertsville-----	90	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00
SaB: Sandview-----	90	Not limited		Not limited		Not limited	
SaC: Sandview-----	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
ScA: Sciotoville-----	90	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
ScB: Sciotoville-----	90	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
ScC: Sciotoville-----	90	Very limited Depth to saturated zone Shrink-swell Slope	1.00 0.50 0.04	Very limited Depth to saturated zone Shrink-swell Slope	1.00 0.50 0.04	Very limited Depth to saturated zone Slope Shrink-swell	1.00 1.00 0.50
SdA: Sciotoville-----	90	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50
SdB: Sciotoville-----	90	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ShC3: Shrouts-----	75	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Shrink-swell Depth to soft bedrock Slope	0.50 0.10 0.04	Very limited Slope Shrink-swell	1.00 0.50
ShD3: Shrouts-----	75	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell Depth to soft bedrock	1.00 0.50 0.10	Very limited Slope Shrink-swell	1.00 0.50
TjB: Tilsit-----	90	Somewhat limited Depth to saturated zone	0.16	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.16
TjC: Tilsit-----	90	Somewhat limited Depth to saturated zone Slope	0.16 0.04	Very limited Depth to saturated zone Slope	1.00 0.04	Very limited Slope Depth to saturated zone	1.00 0.16
TjD: Tilsit-----	90	Very limited Slope Depth to saturated zone	1.00 0.16	Very limited Depth to saturated zone Slope	1.00 1.00	Very limited Slope Depth to saturated zone	1.00 0.16
Ua: Urban land-----	95	Not rated		Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Flooding Depth to saturated zone Depth to hard bedrock	1.00 0.56 0.46	Very limited Flooding Depth to saturated zone Depth to hard bedrock	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Slope Depth to hard bedrock	1.00 0.56 0.50 0.46
Boonewood-----	25	Very limited Flooding Depth to saturated zone Depth to hard bedrock	1.00 0.56 0.46	Very limited Flooding Depth to saturated zone Depth to hard bedrock	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Depth to hard bedrock	1.00 0.56 0.46
UacB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.21	Very limited Flooding	1.00

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UacB: Combs-----	25	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.21	Very limited Flooding	1.00
UadB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Melvin-----	25	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
UaeB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Newark-----	25	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
UafC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Shrink-swell Slope	1.00 1.00 0.50
Zipp-----	25	Very limited Depth to saturated zone Shrink-swell Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Shrink-swell Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Shrink-swell Ponding	1.00 1.00 1.00
UagB: Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Very limited Flooding Depth to saturated zone	1.00 0.56	Very limited Flooding Depth to saturated zone Depth to hard bedrock	1.00 1.00 0.42	Very limited Flooding Depth to saturated zone	1.00 0.56
UahC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UaiC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UajF: Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF: Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC: Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Somewhat limited Depth to saturated zone	0.16	Very limited Depth to saturated zone	1.00	Somewhat limited Slope Depth to saturated zone	0.50 0.16
Tilsit-----	25	Somewhat limited Depth to saturated zone	0.16	Very limited Depth to saturated zone	1.00	Somewhat limited Slope Depth to saturated zone	0.50 0.16
UbC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Somewhat limited Slope	0.50
UbD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
UcC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not limited		Somewhat limited Slope	0.50
UcF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
UdC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding Slope	1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UeC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Slope	1.00 0.50
UfC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone Slope	1.00 1.00 0.50
UgC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Depth to saturated zone	0.16	Very limited Depth to saturated zone	1.00	Somewhat limited Slope Depth to saturated zone	0.50 0.16
UhC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Depth to saturated zone	0.39	Very limited Depth to saturated zone	1.00	Somewhat limited Slope Depth to saturated zone	0.50 0.39
UiC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.50 0.50
UiD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
UiF: Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
UjC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.50 0.50

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UjD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
UjF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
UkC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.50 0.50
Beasley-----	25	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.50 0.50
U1C: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Shrink-swell Depth to hard bedrock	0.50 0.46	Very limited Depth to hard bedrock Shrink-swell	1.00 0.50	Somewhat limited Slope Shrink-swell Depth to hard bedrock	0.50 0.50 0.46
Caneyville-----	25	Somewhat limited Shrink-swell Depth to hard bedrock	0.50 0.46	Very limited Depth to hard bedrock Shrink-swell	1.00 0.50	Somewhat limited Slope Shrink-swell Depth to hard bedrock	0.50 0.50 0.46
U1D: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.46	Very limited Depth to hard bedrock Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.46
Caneyville-----	25	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.46	Very limited Depth to hard bedrock Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Shrink-swell Depth to hard bedrock	1.00 0.50 0.46

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UmC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.50 0.50
Crider-----	25	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Slope Shrink-swell	0.50 0.50
UmD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
Crider-----	25	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
UnC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.43	Very limited Flooding Slope	1.00 0.50
Elk-----	25	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.43	Very limited Flooding Slope	1.00 0.50
UoC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Slope	1.00 0.50
Lawrence-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Slope	1.00 0.50
UpC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone Slope	1.00 1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UpC: Lawrence-----	25	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone Slope	1.00 1.00 0.50
UqC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone	0.39	Very limited Depth to saturated zone	1.00	Somewhat limited Slope Depth to saturated zone	0.50 0.39
Nicholson-----	25	Somewhat limited Depth to saturated zone	0.39	Very limited Depth to saturated zone	1.00	Somewhat limited Slope Depth to saturated zone	0.50 0.39
UrC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone Shrink-swell	0.67 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Slope Shrink-swell	0.67 0.50 0.50
Otwood-----	25	Somewhat limited Depth to saturated zone Shrink-swell	0.67 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Slope Shrink-swell	0.67 0.50 0.50
UsC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 0.67 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Slope Shrink-swell	1.00 0.67 0.50 0.50
Otwood-----	25	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 0.67 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Slope Shrink-swell	1.00 0.67 0.50 0.50
UtC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Slope	1.00 0.50



# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UtC: Robertsville-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
UuC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Somewhat limited Slope	0.50
Sandview-----	25	Not limited		Not limited		Somewhat limited Slope	0.50
UvC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Slope Shrink-swell	1.00 0.50 0.50
Sciotoville-----	25	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Slope Shrink-swell	1.00 0.50 0.50
UwC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Depth to soft bedrock	0.50 0.10	Somewhat limited Slope Shrink-swell	0.50 0.50
Shrouds-----	25	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Depth to soft bedrock	0.50 0.10	Somewhat limited Slope Shrink-swell	0.50 0.50
UwD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell Depth to soft bedrock	1.00 0.50 0.10	Very limited Slope Shrink-swell	1.00 0.50
Shrouds-----	25	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell Depth to soft bedrock	1.00 0.50 0.10	Very limited Slope Shrink-swell	1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UxC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Slope	1.00 0.50
Weinbach-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Slope	1.00 0.50
UyC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Somewhat limited Slope	0.50
Wheeling-----	25	Not limited		Not limited		Somewhat limited Slope	0.50
UyD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Wheeling-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
UzC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding Slope	1.00 0.50
Wheeling-----	25	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding Slope	1.00 0.50
W:							
Water-----	100	Not rated		Not rated		Not rated	
WeA:							
Weinbach-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
WeB:							
Weinbach-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
WfA:							
Weinbach-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WfB: Weinbach-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
WhA: Wheeling-----	90	Not limited		Not limited		Not limited	
WhB: Wheeling-----	90	Not limited		Not limited		Not limited	
WhC: Wheeling-----	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
WhD: Wheeling-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
WhF: Wheeling-----	90	Very limited Slope Flooding	1.00 1.00	Very limited Slope Flooding	1.00 1.00	Very limited Slope Flooding	1.00 1.00
WkA: Wheeling-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
WkB: Wheeling-----	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
WkC: Wheeling-----	90	Very limited Flooding Slope	1.00 0.04	Very limited Flooding Slope	1.00 0.04	Very limited Flooding Slope	1.00 1.00
WkD: Wheeling-----	90	Very limited Flooding Slope	1.00 1.00	Very limited Flooding Slope	1.00 1.00	Very limited Slope Flooding	1.00 1.00
WkF: Wheeling-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
WoA: Woolper-----	80	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Shrink-swell	1.00 0.50
WoB: Woolper-----	80	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Shrink-swell	1.00 0.50

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements		Dwellings with basements		Small commercial buildings	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WoC: Woolper-----	80	Very limited Flooding Shrink-swell Slope	1.00 0.50 0.04	Very limited Flooding Shrink-swell Slope	1.00 0.50 0.04	Very limited Flooding Slope Shrink-swell	1.00 1.00 0.50
ZpA: Zipp-----	90	Very limited Depth to saturated zone Shrink-swell Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Shrink-swell Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Shrink-swell Ponding	1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
AfC: Alford-----	90	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
AfD: Alford-----	85	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
AfF: Alford-----	80	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
BeB: Beasley-----	80	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Too clayey Cutbanks cave	0.12 0.10	Not limited	
BeC: Beasley-----	80	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.04	Somewhat limited Too clayey Cutbanks cave Slope	0.12 0.10 0.04	Somewhat limited Slope	0.04
BeD: Beasley-----	80	Very limited Low strength Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.12 0.10	Very limited Slope	1.00
Bo: Boonewood-----	90	Very limited Flooding Low strength Depth to hard bedrock Depth to saturated zone	1.00 1.00 0.46 0.28	Very limited Depth to hard bedrock Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.60 0.10	Somewhat limited Flooding Depth to bedrock Depth to saturated zone Droughty	0.60 0.46 0.28 0.16

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CaB2: Caneyville-----	80	Very limited Low strength Shrink-swell Depth to hard bedrock	1.00 0.50 0.46	Very limited Depth to hard bedrock Too clayey Cutbanks cave	1.00 0.50 0.10	Somewhat limited Depth to bedrock	0.46
CaC2: Caneyville-----	80	Very limited Low strength Shrink-swell Depth to hard bedrock Slope	1.00 0.50 0.46 0.04	Very limited Depth to hard bedrock Too clayey Cutbanks cave Slope	1.00 0.50 0.10 0.04	Somewhat limited Depth to bedrock Slope	0.46 0.04
CaD2: Caneyville-----	80	Very limited Low strength Slope Shrink-swell Depth to hard bedrock	1.00 1.00 0.50 0.46	Very limited Depth to hard bedrock Slope Too clayey Cutbanks cave	1.00 1.00 1.00 0.50 0.10	Very limited Slope Depth to bedrock	1.00 0.46
CcF2: Caneyville-----	70	Very limited Low strength Slope Shrink-swell Depth to hard bedrock	1.00 1.00 0.50 0.46	Very limited Depth to hard bedrock Slope Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Slope Depth to bedrock	1.00 0.46
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Slope Low strength	1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Large stones content	1.00 0.03
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	
CnF: Chagrin-----	35	Very limited Flooding Low strength Slope	1.00 1.00 0.91	Somewhat limited Slope Flooding Cutbanks cave	0.91 0.80 0.10	Very limited Flooding Slope	1.00 0.91
Nelse-----	35	Very limited Flooding Slope	1.00 0.91	Somewhat limited Slope Flooding Cutbanks cave	0.91 0.80 0.10	Very limited Flooding Slope Droughty	1.00 0.91 0.06
Wheeling-----	10	Very limited Flooding Slope	1.00 1.00	Very limited Slope Flooding Cutbanks cave	1.00 0.80 0.10	Very limited Flooding Slope	1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Co: Combs-----	90	Very limited Flooding	1.00	Somewhat limited Flooding Depth to saturated zone Cutbanks cave	0.60 0.21 0.10	Somewhat limited Flooding	0.60
CrA: Crider-----	90	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
CrB: Crider-----	90	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
CrC: Crider-----	90	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
CrD: Crider-----	80	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Very limited Low strength	1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 0.43	Not limited	
EkB: Elk-----	90	Very limited Low strength	1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 0.43	Not limited	
EkC: Elk-----	90	Very limited Low strength Slope	1.00 0.04	Very limited Cutbanks cave Depth to saturated zone Slope	1.00 0.43 0.04	Somewhat limited Slope	0.04
EkD: Elk-----	90	Very limited Slope Low strength	1.00 1.00	Very limited Cutbanks cave Slope Depth to saturated zone	1.00 1.00 0.43	Very limited Slope	1.00

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EoA: Elk-----	90	Very limited Flooding Low strength	1.00 1.00	Very limited Cutbanks cave Flooding Depth to saturated zone	1.00 0.60 0.43	Somewhat limited Flooding	0.60
EoB: Elk-----	90	Very limited Flooding Low strength	1.00 1.00	Very limited Cutbanks cave Flooding Depth to saturated zone	1.00 0.60 0.43	Somewhat limited Flooding	0.60
EoC: Elk-----	90	Very limited Flooding Low strength Slope	1.00 1.00 0.04	Very limited Cutbanks cave Flooding Depth to saturated zone Slope	1.00 0.60 0.43 0.04	Somewhat limited Flooding Slope	0.60 0.04
FaC: Faywood-----	80	Very limited Low strength Depth to hard bedrock Shrink-swell Slope	1.00 0.54 0.50 0.04	Very limited Depth to hard bedrock Cutbanks cave Slope Too clayey	1.00 0.10 0.04 0.02	Somewhat limited Depth to bedrock Slope	0.54 0.04
FaD: Faywood-----	80	Very limited Low strength Slope Depth to hard bedrock Shrink-swell	1.00 1.00 0.54 0.50	Very limited Depth to hard bedrock Slope Cutbanks cave Too clayey	1.00 1.00 0.10 0.02	Very limited Slope Depth to bedrock	1.00 0.54
FeC3: Faywood-----	85	Very limited Low strength Shrink-swell Depth to hard bedrock Slope	1.00 0.50 0.20 0.04	Very limited Depth to hard bedrock Cutbanks cave Slope Too clayey	1.00 0.10 0.04 0.02	Somewhat limited Depth to bedrock Slope	0.20 0.04
FeD3: Faywood-----	80	Very limited Low strength Slope Shrink-swell Depth to hard bedrock	1.00 1.00 0.50 0.20	Very limited Depth to hard bedrock Slope Cutbanks cave Too clayey	1.00 1.00 0.10 0.02	Very limited Slope Depth to bedrock	1.00 0.20
FsF: Faywood-----	40	Very limited Slope Low strength Depth to hard bedrock Shrink-swell	1.00 1.00 0.54 0.50	Very limited Depth to hard bedrock Slope Cutbanks cave Too clayey	1.00 1.00 0.10 0.02	Very limited Slope Depth to bedrock	1.00 0.54



# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FsF: Shrouts-----	30	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave Depth to soft bedrock Too clayey	1.00 0.10 0.10 0.08	Very limited Slope Depth to bedrock	1.00 0.10
Beasley-----	25	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.12 0.10	Very limited Slope	1.00
GpD: Gilpin-----	80	Very limited Slope Low strength	1.00 1.00	Very limited Slope Depth to soft bedrock Cutbanks cave	1.00 0.35 0.10	Very limited Slope Depth to bedrock	1.00 0.35
GwF: Gilpin-----	45	Very limited Slope Low strength	1.00 1.00	Very limited Slope Depth to soft bedrock Cutbanks cave	1.00 0.35 0.10	Very limited Slope Depth to bedrock	1.00 0.35
Weikert-----	40	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Depth to bedrock Droughty Large stones	1.00 1.00 1.00 0.01
Ha: Huntington-----	90	Very limited Flooding Low strength	1.00 1.00	Somewhat limited Flooding Depth to saturated zone Cutbanks cave	0.60 0.38 0.10	Somewhat limited Flooding	0.60
Hf: Huntington-----	90	Very limited Flooding Low strength	1.00 1.00	Somewhat limited Flooding Depth to saturated zone Cutbanks cave	0.80 0.38 0.10	Very limited Flooding	1.00
LaA: Lawrence-----	90	Very limited Low strength Depth to saturated zone	1.00 0.94	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
LaB: Lawrence-----	90	Very limited Low strength Depth to saturated zone	1.00 0.94	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LbA: Lawrence-----	90	Very limited Flooding Low strength Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
LbB: Lawrence-----	90	Very limited Flooding Low strength Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
Ld: Lindside-----	90	Very limited Flooding Low strength Depth to saturated zone	1.00 1.00 0.05	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60	Somewhat limited Flooding Depth to saturated zone	0.60 0.05
Ln: Lindside-----	90	Very limited Flooding Low strength Depth to saturated zone	1.00 1.00 0.05	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 0.05
Me: Melvin-----	90	Very limited Depth to saturated zone Flooding Low strength	1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Very limited Depth to saturated zone Flooding	1.00 0.60
Mf: Melvin-----	90	Very limited Depth to saturated zone Flooding Low strength	1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.80 0.10	Very limited Flooding Depth to saturated zone	1.00 1.00
Ne: Newark-----	90	Very limited Flooding Low strength Depth to saturated zone	1.00 1.00 0.96	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.96 0.60
Nf: Newark-----	90	Very limited Flooding Low strength Depth to saturated zone	1.00 1.00 0.96	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.80 0.10	Very limited Flooding Depth to saturated zone	1.00 0.96
NnA: Nicholson-----	90	Very limited Low strength Depth to saturated zone	1.00 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NnB: Nicholson-----	90	Very limited Low strength Depth to saturated zone	1.00 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19
NnC: Nicholson-----	90	Very limited Low strength Depth to saturated zone Slope	1.00 0.19 0.04	Very limited Depth to saturated zone Cutbanks cave Slope	1.00 0.10 0.04	Somewhat limited Depth to saturated zone Slope	0.19 0.04
No: Nolin-----	90	Very limited Flooding Low strength	1.00 1.00	Somewhat limited Flooding Cutbanks cave	0.60 0.10	Somewhat limited Flooding	0.60
OtA: Otwood-----	90	Very limited Low strength Shrink-swell Depth to saturated zone	1.00 0.50 0.35	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.35
OtB: Otwood-----	90	Very limited Low strength Shrink-swell Depth to saturated zone	1.00 0.50 0.35	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.35
OtC: Otwood-----	90	Very limited Low strength Shrink-swell Depth to saturated zone Slope	1.00 0.50 0.35 0.04	Very limited Depth to saturated zone Cutbanks cave Slope	1.00 0.10 0.04	Somewhat limited Depth to saturated zone Slope	0.35 0.04
OwA: Otwood-----	90	Very limited Flooding Low strength Shrink-swell Depth to saturated zone	1.00 1.00 0.50 0.35	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Flooding Depth to saturated zone	0.60 0.35
OwB: Otwood-----	90	Very limited Flooding Low strength Shrink-swell Depth to saturated zone	1.00 1.00 0.50 0.35	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Flooding Depth to saturated zone	0.60 0.35

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OwC: Otwood-----	90	Very limited Flooding Low strength Shrink-swell Depth to saturated zone Slope	1.00 1.00 0.50 0.35 0.04	Very limited Depth to saturated zone Flooding Cutbanks cave Slope	1.00 0.60 0.10 0.04	Somewhat limited Flooding Depth to saturated zone Slope	0.60 0.35 0.04
Pa: Patton-----	90	Very limited Depth to saturated zone Low strength Ponding Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	
RoA: Robertsville-----	90	Very limited Depth to saturated zone Low strength	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Very limited Depth to saturated zone	1.00
RpA: Robertsville-----	90	Very limited Depth to saturated zone Low strength Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
SaB: Sandview-----	90	Very limited Low strength	1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.02	Not limited	
SaC: Sandview-----	90	Very limited Low strength Slope	1.00 0.04	Somewhat limited Cutbanks cave Slope Too clayey	0.10 0.04 0.02	Somewhat limited Slope	0.04
ScA: Sciotoville-----	90	Very limited Low strength Depth to saturated zone Shrink-swell	1.00 0.94 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
ScB: Sciotoville-----	90	Very limited Low strength Depth to saturated zone Shrink-swell	1.00 0.94 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ScC: Sciotoville-----	90	Very limited Low strength Depth to saturated zone Shrink-swell Slope	1.00 0.94 0.50 0.04	Very limited Depth to saturated zone Cutbanks cave Slope	1.00 0.10 0.04	Somewhat limited Depth to saturated zone Slope	0.94 0.04
SdA: Sciotoville-----	90	Very limited Flooding Low strength Depth to saturated zone Shrink-swell	1.00 1.00 0.94 0.50	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
SdB: Sciotoville-----	90	Very limited Flooding Low strength Depth to saturated zone Shrink-swell	1.00 1.00 0.94 0.50	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
ShC3: Shrouts-----	75	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.04	Somewhat limited Cutbanks cave Depth to soft bedrock Too clayey Slope	0.10 0.10 0.08 0.04	Somewhat limited Depth to bedrock Slope	0.10 0.04
ShD3: Shrouts-----	75	Very limited Low strength Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave Depth to soft bedrock Too clayey	1.00 0.10 0.10 0.08	Very limited Slope Depth to bedrock	1.00 0.10
TjB: Tilsit-----	90	Very limited Low strength Depth to saturated zone	1.00 0.08	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.08
TjC: Tilsit-----	90	Very limited Low strength Depth to saturated zone Slope	1.00 0.08 0.04	Very limited Depth to saturated zone Cutbanks cave Slope	1.00 0.10 0.04	Somewhat limited Depth to saturated zone Slope	0.08 0.04
TjD: Tilsit-----	90	Very limited Slope Low strength Depth to saturated zone	1.00 1.00 0.08	Very limited Depth to saturated zone Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Depth to saturated zone	1.00 0.08

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ua: Urban land-----	95	Not rated		Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Low strength Depth to hard bedrock Flooding Depth to saturated zone	1.00 0.46  0.40 0.28	Very limited Depth to hard bedrock Depth to saturated zone Cutbanks cave	1.00  1.00 0.10	Somewhat limited Droughty Depth to bedrock Depth to saturated zone	0.74 0.46 0.28
Boonewood-----	25	Very limited Low strength Depth to hard bedrock Flooding Depth to saturated zone	1.00 0.46  0.40 0.28	Very limited Depth to hard bedrock Depth to saturated zone Cutbanks cave	1.00  1.00 0.10	Somewhat limited Depth to bedrock Depth to saturated zone Droughty	0.46 0.28 0.16
UacB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Somewhat limited Flooding	0.40	Somewhat limited Depth to saturated zone Cutbanks cave	0.21 0.10	Not limited	
Combs-----	25	Somewhat limited Flooding	0.40	Somewhat limited Depth to saturated zone Cutbanks cave	0.21 0.10	Not limited	
UadB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Low strength Flooding	1.00  1.00 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00  0.10	Very limited Depth to saturated zone	1.00
Melvin-----	25	Very limited Depth to saturated zone Low strength Flooding	1.00  1.00 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00  0.10	Very limited Depth to saturated zone	1.00
UaeB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Low strength Depth to saturated zone Flooding	1.00  0.96 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00  0.10	Somewhat limited Depth to saturated zone	0.96

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UaeB: Newark-----	25	Very limited Low strength Depth to saturated zone Flooding	1.00 0.96 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.96
UafC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Low strength Shrink-swell	1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.88 0.10	Very limited Depth to saturated zone Too clayey	1.00 1.00
Zipp-----	25	Very limited Depth to saturated zone Low strength Shrink-swell Ponding	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.88 0.10	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00
UagB: Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Very limited Low strength Flooding Depth to saturated zone	1.00 0.40 0.28	Very limited Depth to saturated zone Depth to hard bedrock Cutbanks cave	1.00 0.42 0.10	Somewhat limited Depth to saturated zone Droughty	0.28 0.09
UahC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UaiC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UajF: Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF: Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC: Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Very limited Low strength Depth to saturated zone	1.00 0.08	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.08

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UamC: Tilsit-----	25	Very limited Low strength Depth to saturated zone	1.00 0.08	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.08
UbC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
Ubd: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
UcC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
UcF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
UdC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Flooding	0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
UeC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Low strength Depth to saturated zone	1.00 0.94	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
UfC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Low strength Depth to saturated zone Flooding	1.00 0.94 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94



# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UgC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Low strength Depth to saturated zone	1.00 0.08	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.12 0.10	Somewhat limited Depth to saturated zone	0.08
UhC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Low strength Depth to saturated zone	1.00 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19
UiC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Too clayey Cutbanks cave	0.12 0.10	Very limited Too clayey Large stones content	1.00 0.03
UiD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Low strength Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.12 0.10	Very limited Slope Too clayey Large stones content	1.00 1.00 0.03
UiF: Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
UjC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Too clayey Cutbanks cave	0.50 0.10	Not limited	
UjD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.50 0.10	Very limited Slope	1.00

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UjF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.50 0.10	Very limited Slope	1.00
UkC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Too clayey Cutbanks cave	0.12 0.10	Very limited Too clayey Large stones content	1.00 0.03
Beasley-----	25	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Too clayey Cutbanks cave	0.12 0.10	Not limited	
U1C: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Shrink-swell Depth to hard bedrock	1.00 0.50 0.46	Very limited Depth to hard bedrock Too clayey Cutbanks cave	1.00 0.50 0.10	Very limited Too clayey Depth to bedrock Large stones content	1.00 0.46 0.38
Caneyville-----	25	Very limited Low strength Shrink-swell Depth to hard bedrock	1.00 0.50 0.46	Very limited Depth to hard bedrock Too clayey Cutbanks cave	1.00 0.50 0.10	Somewhat limited Depth to bedrock	0.46
U1D: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Slope Shrink-swell Depth to hard bedrock	1.00 1.00 0.50 0.46	Very limited Depth to hard bedrock Slope Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Slope Too clayey Depth to bedrock Large stones content	1.00 1.00 0.46 0.38
Caneyville-----	25	Very limited Low strength Slope Shrink-swell Depth to hard bedrock	1.00 1.00 0.50 0.46	Very limited Depth to hard bedrock Slope Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Slope Depth to bedrock	1.00 0.46
UmC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UmC: Crider-----	25	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
UmD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Crider-----	25	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
UnC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Flooding	1.00 0.40	Very limited Cutbanks cave Depth to saturated zone	1.00 0.43	Not limited	
Elk-----	25	Very limited Low strength Flooding	1.00 0.40	Very limited Cutbanks cave Depth to saturated zone	1.00 0.43	Not limited	
UoC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Depth to saturated zone	1.00 0.94	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
Lawrence-----	25	Very limited Low strength Depth to saturated zone	1.00 0.94	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
UpC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Depth to saturated zone Flooding	1.00 0.94 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
Lawrence-----	25	Very limited Low strength Depth to saturated zone Flooding	1.00 0.94 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UqC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Depth to saturated zone	1.00 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19
Nicholson-----	25	Very limited Low strength Depth to saturated zone	1.00 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19
UrC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Shrink-swell Depth to saturated zone	1.00 0.50 0.35	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.35
Otwood-----	25	Very limited Low strength Shrink-swell Depth to saturated zone	1.00 0.50 0.35	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.35
UsC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Shrink-swell Flooding Depth to saturated zone	1.00 0.50 0.40 0.35	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.35
Otwood-----	25	Very limited Low strength Shrink-swell Flooding Depth to saturated zone	1.00 0.50 0.40 0.35	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.35
UtC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Low strength	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Very limited Depth to saturated zone	1.00
Robertsville-----	25	Very limited Depth to saturated zone Low strength	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Very limited Depth to saturated zone	1.00

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UuC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength	1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.02	Not limited	
Sandview-----	25	Very limited Low strength	1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.02	Not limited	
UvC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Depth to saturated zone Shrink-swell	1.00 0.94 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
Sciotoville-----	25	Very limited Low strength Depth to saturated zone Shrink-swell	1.00 0.94 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
UwC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Depth to soft bedrock Too clayey	0.10 0.10 0.08	Very limited Too clayey Depth to bedrock	1.00 0.10
Shrouts-----	25	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Depth to soft bedrock Too clayey	0.10 0.10 0.08	Somewhat limited Depth to bedrock	0.10
UwD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave Depth to soft bedrock Too clayey	1.00 0.10 0.10 0.08	Very limited Slope Too clayey Depth to bedrock	1.00 1.00 0.10
Shrouts-----	25	Very limited Low strength Slope Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave Depth to soft bedrock Too clayey	1.00 0.10 0.10 0.08	Very limited Slope Depth to bedrock	1.00 0.10

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UxC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Low strength Depth to saturated zone	1.00 0.94	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
Weinbach-----	25	Very limited Low strength Depth to saturated zone	1.00 0.94	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
UyC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
Wheeling-----	25	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
UyD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Wheeling-----	25	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
UzC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Flooding	0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
Wheeling-----	25	Somewhat limited Flooding	0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
W:							
Water-----	100	Not rated		Not rated		Not rated	
WeA:							
Weinbach-----	90	Very limited Low strength Depth to saturated zone	1.00 0.94	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
WeB:							
Weinbach-----	90	Very limited Low strength Depth to saturated zone	1.00 0.94	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WfA: Weinbach-----	90	Very limited Flooding Low strength Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
WfB: Weinbach-----	90	Very limited Flooding Low strength Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
WhA: Wheeling-----	90	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
WhB: Wheeling-----	90	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
WhC: Wheeling-----	90	Somewhat limited Slope	0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
WhD: Wheeling-----	90	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
WhF: Wheeling-----	90	Very limited Slope Flooding	1.00 1.00	Very limited Slope Flooding Cutbanks cave	1.00 0.60 0.10	Very limited Slope Flooding	1.00 0.60
WkA: Wheeling-----	90	Very limited Flooding	1.00	Somewhat limited Flooding Cutbanks cave	0.60 0.10	Somewhat limited Flooding	0.60
WkB: Wheeling-----	90	Very limited Flooding	1.00	Somewhat limited Flooding Cutbanks cave	0.60 0.10	Somewhat limited Flooding	0.60
WkC: Wheeling-----	90	Very limited Flooding Slope	1.00 0.04	Somewhat limited Flooding Cutbanks cave Slope	0.60 0.10 0.04	Somewhat limited Flooding Slope	0.60 0.04
WkD: Wheeling-----	90	Very limited Flooding Slope	1.00 1.00	Very limited Slope Flooding Cutbanks cave	1.00 0.60 0.10	Very limited Slope Flooding	1.00 0.60

# Soil Survey of Jefferson County, Kentucky

Table 13.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WkF: Wheeling-----	90	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
WoA: Woolper-----	80	Very limited Low strength Shrink-swell Flooding	1.00 0.50 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
WoB: Woolper-----	80	Very limited Low strength Shrink-swell Flooding	1.00 0.50 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
WoC: Woolper-----	80	Very limited Low strength Shrink-swell Flooding Slope	1.00 0.50 0.40 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
ZpA: Zipp-----	90	Very limited Depth to saturated zone Low strength Shrink-swell Ponding	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.88 0.10	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00



# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Somewhat limited Slow water movement	0.48	Somewhat limited Seepage Slope	0.52 0.32
AfC: Alford-----	90	Somewhat limited Slow water movement Slope	0.48 0.04	Very limited Slope Seepage	1.00 0.52
AfD: Alford-----	85	Very limited Slope Slow water movement	1.00 0.48	Very limited Slope Seepage	1.00 0.52
AfF: Alford-----	80	Very limited Slope Slow water movement	1.00 0.48	Very limited Slope Seepage	1.00 0.52
BeB: Beasley-----	80	Very limited Slow water movement Depth to bedrock	1.00 0.86	Somewhat limited Depth to soft bedrock Slope	0.61 0.32
BeC: Beasley-----	80	Very limited Slow water movement Depth to bedrock Slope	1.00 0.86 0.04	Very limited Slope Depth to soft bedrock	1.00 0.61
BeD: Beasley-----	80	Very limited Slow water movement Slope Depth to bedrock	1.00 1.00 0.86	Very limited Slope Depth to soft bedrock	1.00 0.61
Bo: Boonewood-----	90	Very limited Flooding Depth to saturated zone Depth to bedrock Slow water movement	1.00 1.00 1.00 0.48	Very limited Depth to hard bedrock Flooding Depth to saturated zone Seepage	1.00 1.00 1.00 0.52

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CaB2: Caneyville-----	80	Very limited Slow water movement Depth to bedrock	1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 0.32
CaC2: Caneyville-----	80	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 0.04	Very limited Depth to hard bedrock Slope	1.00 1.00
CaD2: Caneyville-----	80	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
CcF2: Caneyville-----	70	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Rock outcrop-----	20	Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Slope Slow water movement Depth to bedrock	1.00 1.00 0.94	Very limited Slope Depth to soft bedrock Seepage	1.00 0.84 0.52
Cm: Cemeteries-----	100	Not rated		Not rated	
CnF: Chagrin-----	35	Very limited Flooding Slope Slow water movement	1.00 0.91 0.48	Very limited Flooding Slope Seepage	1.00 1.00 0.52
Nelse-----	35	Very limited Flooding Filtering capacity Seepage, bottom layer Slope	1.00 1.00 1.00 0.91	Very limited Flooding Seepage Slope	1.00 1.00 1.00
Wheeling-----	10	Very limited Flooding Seepage, bottom layer Slope	1.00 1.00 1.00	Very limited Flooding Seepage Slope	1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Co: Combs-----	90	Very limited Flooding Seepage, bottom layer Depth to saturated zone	1.00 1.00 0.59	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 0.01
CrA: Crider-----	90	Somewhat limited Slow water movement	0.48	Somewhat limited Seepage	0.52
CrB: Crider-----	90	Somewhat limited Slow water movement	0.48	Somewhat limited Seepage Slope	0.52 0.32
CrC: Crider-----	90	Somewhat limited Slow water movement Slope	0.48 0.04	Very limited Slope Seepage	1.00 0.52
CrD: Crider-----	80	Very limited Slope Slow water movement	1.00 0.48	Very limited Slope Seepage	1.00 0.52
DAM: Dam, large-----	100	Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated	
EkA: Elk-----	90	Somewhat limited Depth to saturated zone Slow water movement	0.92 0.48	Somewhat limited Seepage Depth to saturated zone	0.52 0.32
EkB: Elk-----	90	Somewhat limited Depth to saturated zone Slow water movement	0.92 0.48	Somewhat limited Seepage Slope Depth to saturated zone	0.52 0.32 0.32
EkC: Elk-----	90	Somewhat limited Depth to saturated zone Slow water movement Slope	0.92 0.48 0.04	Very limited Slope Seepage Depth to saturated zone	1.00 0.52 0.32

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
EkD: Elk-----	90	Very limited Slope Depth to saturated zone Slow water movement	1.00 0.92 0.48	Very limited Slope Seepage Depth to saturated zone	1.00 0.52 0.32
EoA: Elk-----	90	Very limited Flooding Depth to saturated zone Slow water movement	1.00 0.92 0.48	Very limited Flooding Seepage Depth to saturated zone	1.00 0.52 0.32
EoB: Elk-----	90	Very limited Flooding Depth to saturated zone Slow water movement	1.00 0.92 0.48	Very limited Flooding Seepage Slope Depth to saturated zone	1.00 0.52 0.32
EoC: Elk-----	90	Very limited Flooding Depth to saturated zone Slow water movement Slope	1.00 0.92 0.48 0.04	Very limited Flooding Slope Seepage Depth to saturated zone	1.00 1.00 0.52 0.32
FaC: Faywood-----	80	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 0.04	Very limited Depth to hard bedrock Slope	1.00 1.00
FaD: Faywood-----	80	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
FeC3: Faywood-----	85	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 0.04	Very limited Depth to hard bedrock Slope	1.00 1.00
FeD3: Faywood-----	80	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
<b>FsF:</b> Faywood-----	40	Very limited Slow water movement Slope Depth to bedrock	1.00 1.00 1.00	Very limited Depth to hard bedrock Slope	1.00 1.00
Shrouts-----	30	Very limited Slow water movement Slope Depth to bedrock	1.00 1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
Beasley-----	25	Very limited Slow water movement Slope Depth to bedrock	1.00 1.00 0.86	Very limited Slope Depth to soft bedrock	1.00 0.61
<b>GpD:</b> Gilpin-----	80	Very limited Depth to bedrock Slope Slow water movement	1.00 1.00 0.48	Very limited Depth to soft bedrock Slope Seepage	1.00 1.00 0.52
<b>GwF:</b> Gilpin-----	45	Very limited Slope Depth to bedrock Slow water movement	1.00 1.00 0.48	Very limited Depth to soft bedrock Slope Seepage	1.00 1.00 0.52
Weikert-----	40	Very limited Depth to bedrock Slope Seepage, bottom layer	1.00 1.00 1.00	Very limited Depth to soft bedrock Slope Seepage	1.00 1.00 1.00
<b>Ha:</b> Huntington-----	90	Very limited Flooding Depth to saturated zone Slow water movement	1.00 0.87 0.48	Very limited Flooding Seepage Depth to saturated zone	1.00 0.52 0.22
<b>Hf:</b> Huntington-----	90	Very limited Flooding Depth to saturated zone Slow water movement	1.00 0.87 0.48	Very limited Flooding Seepage Depth to saturated zone	1.00 0.52 0.22
<b>LaA:</b> Lawrence-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Seepage	1.00 0.52

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
LaB: Lawrence-----	90	Very limited Slow water movement Depth to saturated zone	1.00  1.00	Very limited Depth to saturated zone Seepage Slope	1.00  0.52 0.32
LbA: Lawrence-----	90	Very limited Flooding Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00
LbB: Lawrence-----	90	Very limited Flooding Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage Slope	1.00 1.00 1.00 0.32
Ld: Lindside-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer Slow water movement	1.00 1.00 1.00 0.48	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00
Ln: Lindside-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer Slow water movement	1.00 1.00 1.00 0.48	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00
Me: Melvin-----	90	Very limited Flooding Slow water movement Depth to saturated zone	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.52
Mf: Melvin-----	90	Very limited Flooding Slow water movement Depth to saturated zone	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.52

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ne: Newark-----	90	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.48	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.52
Nf: Newark-----	90	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.48	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.52
NnA: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone Seepage	0.75 0.52
NnB: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone Seepage Slope	0.75 0.52 0.32
NnC: Nicholson-----	90	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.04	Very limited Slope Depth to saturated zone Seepage	1.00 0.75 0.52
No: Nolin-----	90	Very limited Flooding Seepage, bottom layer Slow water movement	1.00 1.00 0.48	Very limited Flooding Seepage	1.00 0.52
OtA: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Somewhat limited Depth to saturated zone Seepage	0.88 0.52

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
OtB: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer	1.00  1.00 1.00	Somewhat limited Depth to saturated zone Seepage Slope	0.88  0.52 0.32
OtC: Otwood-----	90	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer Slope	1.00  1.00 1.00  0.04	Very limited Slope Depth to saturated zone Seepage	1.00 0.88  0.52
OwA: Otwood-----	90	Very limited Flooding Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 0.88  0.52
OwB: Otwood-----	90	Very limited Flooding Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage Slope	1.00 0.88  0.52 0.32
OwC: Otwood-----	90	Very limited Flooding Slow water movement Depth to saturated zone Seepage, bottom layer Slope	1.00 1.00 1.00 1.00  0.04	Very limited Flooding Slope Depth to saturated zone Seepage	1.00 1.00 0.88  0.52
Pa: Patton-----	90	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Seepage	1.00  1.00 0.52
Pt: Pits, quarries-----	100	Not rated		Not rated	



# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
RoA: Robertsville-----	90	Very limited Slow water movement Depth to saturated zone	1.00  1.00	Very limited Depth to saturated zone Seepage	1.00  0.52
RpA: Robertsville-----	90	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer Ponding	1.00  1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Seepage	1.00  1.00 0.52
SaB: Sandview-----	90	Somewhat limited Slow water movement	0.48	Somewhat limited Seepage Slope	0.52 0.32
SaC: Sandview-----	90	Somewhat limited Slow water movement Slope	0.48  0.04	Very limited Slope Seepage	1.00 0.52
ScA: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer	1.00  1.00 1.00	Very limited Depth to saturated zone Seepage	1.00  0.52
ScB: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer	1.00  1.00 1.00	Very limited Depth to saturated zone Seepage Slope	1.00  0.52 0.32
ScC: Sciotoville-----	90	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer Slope	1.00  1.00 1.00 0.04	Very limited Depth to saturated zone Slope Seepage	1.00  1.00 0.52

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
SdA: Sciotoville-----	90	Very limited Flooding Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.52
SdB: Sciotoville-----	90	Very limited Flooding Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage Slope	1.00 1.00 0.52 0.32
ShC3: Shrouts-----	75	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 0.04	Very limited Depth to soft bedrock Slope	1.00 1.00
ShD3: Shrouts-----	75	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
TjB: Tilsit-----	90	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone Seepage Slope	0.56 0.52 0.32
TjC: Tilsit-----	90	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 0.04	Very limited Slope Depth to saturated zone Seepage	1.00 0.56 0.52
TjD: Tilsit-----	90	Very limited Slow water movement Depth to saturated zone Slope	1.00 1.00 1.00	Very limited Slope Depth to saturated zone Seepage	1.00 0.56 0.52
Ua: Urban land-----	95	Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UabC: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Depth to bedrock Slow water movement Flooding	1.00 1.00 0.79 0.40	Very limited Depth to hard bedrock Depth to saturated zone Slope Flooding Seepage	1.00 1.00 0.92 0.40 0.21
Boonewood-----	25	Very limited Depth to saturated zone Depth to bedrock Slow water movement Flooding	1.00 1.00 0.48 0.40	Very limited Depth to hard bedrock Depth to saturated zone Seepage Flooding	1.00 1.00 0.52 0.40
UacB: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Seepage, bottom layer Depth to saturated zone Flooding	1.00 0.59 0.40	Very limited Seepage Flooding Slope Depth to saturated zone	1.00 0.40 0.08 0.01
Combs-----	25	Very limited Seepage, bottom layer Depth to saturated zone Flooding	1.00 0.59 0.40	Very limited Seepage Flooding Depth to saturated zone	1.00 0.40 0.01
UadB: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Seepage Slope	1.00 0.40 0.27 0.08
Melvin-----	25	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Seepage Flooding	1.00 0.52 0.40

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UaeB: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Slow water movement	0.79	Flooding	0.40
		Flooding	0.40	Seepage	0.21
				Slope	0.08
Newark-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Slow water movement	0.48	Seepage	0.52
		Flooding	0.40	Flooding	0.40
UafC: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	0.92
Zipp-----	25	Very limited Slow water movement	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00
		Ponding	1.00		
UagB: Urban land-----	60	Not rated		Not rated	
Udarents-----	40	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Slow water movement	1.00	Depth to hard bedrock	0.42
		Depth to bedrock	0.78	Flooding	0.40
		Flooding	0.40	Slope	0.08
UahC: Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UaiC: Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UajF: Urban land-----	50	Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated	
UakF: Urban land-----	30	Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UamC: Urban land-----	50	Not rated		Not rated	
Ultic Udarents-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.56
				Seepage	0.27
Tilsit-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.56
				Seepage	0.52
UbC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage, bottom layer	1.00	Very limited Seepage	1.00
				Slope	0.92
Ubd: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage, bottom layer	1.00	Very limited Slope	1.00
		Slope	1.00	Seepage	1.00
UcC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Very limited Seepage	1.00
				Slope	0.92
UcF: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Very limited Slope	1.00
		Slope	1.00	Seepage	1.00
UdC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage, bottom layer	1.00	Very limited Seepage	1.00
		Flooding	0.40	Slope	0.92
				Flooding	0.40
UeC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	0.92

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UfC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Slope	0.92
		Flooding	0.40	Flooding	0.40
UgC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.56
		Depth to bedrock	0.36	Depth to soft bedrock	0.01
UhC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.75
UicC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to bedrock	0.86	Depth to soft bedrock	0.61
UidC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Very limited Slope	1.00
		Slope	1.00	Depth to soft bedrock	0.61
		Depth to bedrock	0.86		
UiF: Urban land-----	60	Not rated		Not rated	
Ultic Udarents-----	40	Very limited Slope	1.00	Very limited Slope	1.00
		Slow water movement	1.00	Seepage	0.52
		Depth to bedrock	0.01		
UjC: Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to bedrock	0.01	Seepage	0.21

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UjD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Very limited Slope	1.00
		Slope	1.00	Seepage	0.21
		Depth to bedrock	0.01		
UjF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slow water movement	1.00	Very limited Slope	1.00
		Slope	1.00	Seepage	0.21
		Depth to bedrock	0.01		
UkC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to bedrock	0.86	Depth to soft bedrock	0.61
Beasley-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to bedrock	0.86	Depth to soft bedrock	0.61
Ulc:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Slope	0.92
Caneyville-----	25	Very limited Slow water movement	1.00	Very limited Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Slope	0.92
Uld:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Slope	1.00
		Slope	1.00		
Caneyville-----	25	Very limited Slow water movement	1.00	Very limited Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Slope	1.00
		Slope	1.00		

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UmC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slow water movement	0.79	Somewhat limited Slope Seepage	0.92 0.21
Crider-----	25	Somewhat limited Slow water movement	0.48	Somewhat limited Slope Seepage	0.92 0.52
UmD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Slow water movement	1.00 0.79	Very limited Slope Seepage	1.00 0.21
Crider-----	25	Very limited Slope Slow water movement	1.00 0.48	Very limited Slope Seepage	1.00 0.52
UnC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to saturated zone Slow water movement Flooding	0.92 0.79 0.40	Somewhat limited Slope Flooding Depth to saturated zone Seepage	0.92 0.40 0.32 0.21
Elk-----	25	Somewhat limited Depth to saturated zone Slow water movement Flooding	0.92 0.48 0.40	Somewhat limited Slope Seepage Flooding Depth to saturated zone	0.92 0.52 0.40 0.32
UoC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Slope Seepage	1.00 0.92 0.27
Lawrence-----	25	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Slope Seepage	1.00 0.92 0.52



# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UpC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Slope	0.92
		Flooding	0.40	Flooding	0.40
Lawrence-----	25	Very limited Slow water movement	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Slope	0.92
		Flooding	0.40	Flooding	0.40
UqC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.75
				Seepage	0.27
Nicholson-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.75
				Seepage	0.52
UrC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.88
		Seepage, bottom layer	1.00	Seepage	0.27
Otwood-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.88
		Seepage, bottom layer	1.00	Seepage	0.52

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UsC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.88
		Seepage, bottom layer	1.00	Flooding	0.40
		Flooding	0.40	Seepage	0.27
Otwood-----	25	Very limited Slow water movement	1.00	Somewhat limited Slope	0.92
		Depth to saturated zone	1.00	Depth to saturated zone	0.88
		Seepage, bottom layer	1.00	Seepage	0.52
		Flooding	0.40	Flooding	0.40
UtC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Depth to	1.00
		Depth to saturated zone	1.00	saturated zone	0.92
				Seepage	0.27
Robertsville-----	25	Very limited Slow water movement	1.00	Very limited Depth to	1.00
		Depth to saturated zone	1.00	saturated zone	0.52
				Seepage	
UuC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slow water movement	0.72	Somewhat limited Slope	0.92
				Seepage	0.27
Sandview-----	25	Somewhat limited Slow water movement	0.48	Somewhat limited Slope	0.92
				Seepage	0.52
UvC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement	1.00	Very limited Depth to	1.00
		Depth to saturated zone	1.00	saturated zone	0.92
		Seepage, bottom layer	1.00	Seepage	0.27

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UvC: Sciotoville-----	25	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Depth to saturated zone Slope Seepage	1.00 0.92 0.52
UwC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 0.92
Shrouts-----	25	Very limited Slow water movement Depth to bedrock	1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 0.92
UwD: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
Shrouts-----	25	Very limited Slow water movement Depth to bedrock Slope	1.00 1.00 1.00	Very limited Depth to soft bedrock Slope	1.00 1.00
UxC: Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage Slope	1.00 1.00 0.92
Weinbach-----	25	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage Slope	1.00 1.00 0.92

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
UyC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage, bottom layer	1.00	Very limited Seepage Slope	1.00 0.92
Wheeling-----	25	Very limited Seepage, bottom layer	1.00	Very limited Seepage Slope	1.00 0.92
UyD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage, bottom layer Slope	1.00 1.00	Very limited Slope Seepage	1.00 1.00
Wheeling-----	25	Very limited Seepage, bottom layer Slope	1.00 1.00	Very limited Slope Seepage	1.00 1.00
UzC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage, bottom layer Flooding	1.00 0.40	Very limited Seepage Slope Flooding	1.00 0.92 0.40
Wheeling-----	25	Very limited Seepage, bottom layer Flooding	1.00 0.40	Very limited Seepage Slope Flooding	1.00 0.92 0.40
W:					
Water-----	100	Not rated		Not rated	
WeA:					
Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage	1.00 1.00
WeB:					
Weinbach-----	90	Very limited Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Depth to saturated zone Seepage Slope	1.00 1.00 0.32

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WfA: Weinbach-----	90	Very limited Flooding Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00
WfB: Weinbach-----	90	Very limited Flooding Slow water movement Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage Slope	1.00 1.00 1.00 0.32
WhA: Wheeling-----	90	Very limited Seepage, bottom layer	1.00	Very limited Seepage	1.00
WhB: Wheeling-----	90	Very limited Seepage, bottom layer	1.00	Very limited Seepage Slope	1.00 0.32
WhC: Wheeling-----	90	Very limited Seepage, bottom layer Slope	1.00 0.04	Very limited Seepage Slope	1.00 1.00
WhD: Wheeling-----	90	Very limited Seepage, bottom layer Slope	1.00 1.00	Very limited Slope Seepage	1.00 1.00
WhF: Wheeling-----	90	Very limited Flooding Slope Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Slope Seepage	1.00 1.00 1.00
WkA: Wheeling-----	90	Very limited Flooding Seepage, bottom layer	1.00 1.00	Very limited Flooding Seepage	1.00 1.00
WkB: Wheeling-----	90	Very limited Flooding Seepage, bottom layer	1.00 1.00	Very limited Flooding Seepage Slope	1.00 1.00 0.32

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields		Sewage lagoons	
		Rating class and limiting features	Value	Rating class and limiting features	Value
WkC: Wheeling-----	90	Very limited Flooding Seepage, bottom layer Slope	1.00 1.00 0.04	Very limited Flooding Seepage Slope	1.00 1.00 1.00
WkD: Wheeling-----	90	Very limited Flooding Seepage, bottom layer Slope	1.00 1.00 1.00	Very limited Flooding Slope Seepage	1.00 1.00 1.00
WkF: Wheeling-----	90	Very limited Slope Seepage, bottom layer	1.00 1.00	Very limited Slope Seepage	1.00 1.00
WoA: Woolper-----	80	Very limited Slow water movement Flooding	1.00 0.40	Somewhat limited Seepage Flooding	0.52 0.40
WoB: Woolper-----	80	Very limited Slow water movement Flooding	1.00 0.40	Somewhat limited Seepage Flooding Slope	0.52 0.40 0.32
WoC: Woolper-----	80	Very limited Slow water movement Flooding Slope	1.00 0.40 0.04	Very limited Slope Seepage Flooding	1.00 0.52 0.40
ZpA: Zipp-----	90	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Not limited		Not limited		Not limited	
AfC: Alford-----	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04
AfD: Alford-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
AfF: Alford-----	80	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
BeB: Beasley-----	80	Very limited Depth to bedrock Too clayey	1.00 1.00	Somewhat limited Depth to bedrock	0.61	Very limited Too clayey Hard to compact Depth to bedrock	1.00 1.00 0.61
BeC: Beasley-----	80	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 0.04	Somewhat limited Depth to bedrock Slope	0.61 0.04	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 0.61 0.04
BeD: Beasley-----	80	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 0.61	Very limited Too clayey Hard to compact Slope Depth to bedrock	1.00 1.00 1.00 0.61
Bo: Boonewood-----	90	Very limited Flooding Depth to saturated zone Depth to bedrock	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Depth to bedrock	1.00 1.00 1.00	Very limited Depth to bedrock Depth to saturated zone	1.00 0.91
CaB2: Caneyville-----	80	Very limited Depth to bedrock Too clayey	1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Too clayey Hard to compact Depth to bedrock	1.00 1.00 1.00
CaC2: Caneyville-----	80	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 0.04	Very limited Depth to bedrock Slope	1.00 0.04	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 0.04

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CaD2: Caneyville-----	80	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 1.00
CcF2: Caneyville-----	70	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 0.50	Very limited Slope Depth to bedrock	1.00 0.84	Very limited Slope Depth to bedrock Too clayey	1.00 0.84 0.50
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	
CnF: Chagrín-----	35	Very limited Flooding Slope	1.00 0.91	Very limited Flooding Slope	1.00 0.91	Somewhat limited Slope	0.91
Nelse-----	35	Very limited Flooding Seepage, bottom layer Slope	1.00 1.00 0.91	Very limited Flooding Seepage Slope	1.00 1.00 0.91	Very limited Seepage Slope	1.00 0.91
Wheeling-----	10	Very limited Flooding Seepage, bottom layer Slope	1.00 1.00 1.00	Very limited Flooding Slope Seepage	1.00 1.00 1.00	Very limited Slope Seepage	1.00 0.21
Co: Combs-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 1.00	Somewhat limited Seepage	0.21
CrA: Crider-----	90	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
CrB: Crider-----	90	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50



# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CrC: Crider-----	90	Somewhat limited Too clayey Slope	0.50 0.04	Somewhat limited Slope	0.04	Somewhat limited Too clayey Slope	0.50 0.04
CrD: Crider-----	80	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Very limited Depth to saturated zone Too clayey	1.00 0.50	Very limited Depth to saturated zone	1.00	Not limited	
EkB: Elk-----	90	Very limited Depth to saturated zone Too clayey	1.00 0.50	Very limited Depth to saturated zone	1.00	Not limited	
EkC: Elk-----	90	Very limited Depth to saturated zone Too clayey Slope	1.00 0.50 0.04	Very limited Depth to saturated zone Slope	1.00 0.04	Somewhat limited Slope	0.04
EkD: Elk-----	90	Very limited Depth to saturated zone Slope Too clayey	1.00 1.00 0.50	Very limited Depth to saturated zone Slope	1.00 1.00	Very limited Slope	1.00
EoA: Elk-----	90	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	
EoB: Elk-----	90	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EoC: Elk-----	90	Very limited Flooding Depth to saturated zone Too clayey Slope	1.00 1.00 0.50 0.04	Very limited Flooding Depth to saturated zone Slope	1.00 1.00 0.04	Somewhat limited Slope	0.04
FaC: Faywood-----	80	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 0.04	Very limited Depth to bedrock Slope	1.00 0.04	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 0.04
FaD: Faywood-----	80	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 1.00
FeC3: Faywood-----	85	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 0.04	Very limited Depth to bedrock Slope	1.00 0.04	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 0.04
FeD3: Faywood-----	80	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 1.00
FsF: Faywood-----	40	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Too clayey Hard to compact Depth to bedrock	1.00 1.00 1.00 1.00
Shrouds-----	30	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Too clayey Hard to compact Depth to bedrock	1.00 1.00 1.00 1.00
Beasley-----	25	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 0.61	Very limited Slope Too clayey Hard to compact Depth to bedrock	1.00 1.00 1.00 0.61
GpD: Gilpin-----	80	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GwF: Gilpin-----	45	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00
Weikert-----	40	Very limited Slope Depth to bedrock Seepage, bottom layer	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Depth to bedrock Slope Seepage Gravel content	1.00 1.00 1.00 0.13
Ha: Huntington-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	
Hf: Huntington-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	
LaA: Lawrence-----	90	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
LaB: Lawrence-----	90	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
LbA: Lawrence-----	90	Very limited Flooding Depth to saturated zone Too clayey Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Seepage	1.00 0.21
LbB: Lawrence-----	90	Very limited Flooding Depth to saturated zone Too clayey Seepage, bottom layer	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Seepage	1.00 0.21
Ld: Lindside-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone	0.71

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ln: Lindside-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone	0.71
Me: Melvin-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
Mf: Melvin-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
Ne: Newark-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
Nf: Newark-----	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
NnA: Nicholson-----	90	Very limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.75	Somewhat limited Depth to saturated zone	0.86
NnB: Nicholson-----	90	Very limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.75	Somewhat limited Depth to saturated zone	0.86
NnC: Nicholson-----	90	Very limited Depth to saturated zone Slope	0.99 0.04	Somewhat limited Depth to saturated zone Slope	0.75 0.04	Somewhat limited Depth to saturated zone Slope	0.86 0.04
No: Nolin-----	90	Very limited Flooding Seepage, bottom layer	1.00 1.00	Very limited Flooding	1.00	Not limited	
OtA: Otwood-----	90	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Somewhat limited Depth to saturated zone	0.88	Somewhat limited Depth to saturated zone	0.93

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OtB: Otwood-----	90	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Somewhat limited Depth to saturated zone	0.88	Somewhat limited Depth to saturated zone	0.93
OtC: Otwood-----	90	Very limited Depth to saturated zone Seepage, bottom layer Slope	1.00 1.00 0.04	Somewhat limited Depth to saturated zone Slope	0.88 0.04	Somewhat limited Depth to saturated zone Slope	0.93 0.04
OwA: Otwood-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.88	Somewhat limited Depth to saturated zone	0.93
OwB: Otwood-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.88	Somewhat limited Depth to saturated zone	0.93
OwC: Otwood-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer Slope	1.00 1.00 1.00 0.04	Very limited Flooding Depth to saturated zone Slope	1.00 0.88 0.04	Somewhat limited Depth to saturated zone Slope	0.93 0.04
Pa: Patton-----	90	Very limited Depth to saturated zone Ponding Too clayey	1.00 1.00 0.50	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding Too clayey	1.00 1.00 0.50
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	
RoA: Robertsville-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RpA: Robertsville-----	90	Very limited Depth to saturated zone Seepage, bottom layer Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00
SaB: Sandview-----	90	Not limited		Not limited		Not limited	
SaC: Sandview-----	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04
ScA: Sciotoville-----	90	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
ScB: Sciotoville-----	90	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
ScC: Sciotoville-----	90	Very limited Depth to saturated zone Seepage, bottom layer Slope	1.00 1.00 0.04	Very limited Depth to saturated zone Slope	1.00 0.04	Very limited Depth to saturated zone Slope	1.00 0.04
SdA: Sciotoville-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
SdB: Sciotoville-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
ShC3: Shrouts-----	75	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 0.04	Very limited Depth to bedrock Slope	1.00 0.04	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 0.04

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ShD3: Shrouds-----	75	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 1.00
TjB: Tilsit-----	90	Somewhat limited Depth to saturated zone	0.98	Somewhat limited Depth to saturated zone	0.56	Somewhat limited Depth to saturated zone	0.76
TjC: Tilsit-----	90	Somewhat limited Depth to saturated zone Slope	0.98 0.04	Somewhat limited Depth to saturated zone Slope	0.56 0.04	Somewhat limited Depth to saturated zone Slope	0.76 0.04
TjD: Tilsit-----	90	Very limited Slope Depth to saturated zone	1.00 0.98	Very limited Slope Depth to saturated zone	1.00 0.56	Very limited Slope Depth to saturated zone	1.00 0.76
Ua: Urban land-----	95	Not rated		Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Depth to bedrock Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Depth to bedrock Flooding	1.00 1.00 0.40	Very limited Depth to bedrock Depth to saturated zone	1.00 0.91
Boonewood-----	25	Very limited Depth to saturated zone Depth to bedrock Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Depth to bedrock Flooding	1.00 1.00 0.40	Very limited Depth to bedrock Depth to saturated zone	1.00 0.91
UacB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Seepage, bottom layer Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Seepage Flooding	1.00 1.00 0.40	Somewhat limited Seepage	0.21
Combs-----	25	Very limited Depth to saturated zone Seepage, bottom layer Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Seepage Flooding	1.00 1.00 0.40	Somewhat limited Seepage	0.21

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UadB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone	1.00
Melvin-----	25	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone	1.00
UaeB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone	1.00
Newark-----	25	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone	1.00
UafC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00
Zipp-----	25	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Too clayey Hard to compact Ponding	1.00 1.00 1.00 1.00
UagB: Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Very limited Depth to saturated zone Depth to bedrock Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Depth to bedrock Flooding	1.00 0.42 0.40	Somewhat limited Depth to saturated zone Depth to bedrock	0.91 0.42
UahC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UaiC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	



# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UajF: Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF: Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC: Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Somewhat limited Depth to saturated zone	0.98	Somewhat limited Depth to saturated zone	0.56	Somewhat limited Depth to saturated zone	0.76
Tilsit-----	25	Somewhat limited Depth to saturated zone	0.98	Somewhat limited Depth to saturated zone	0.56	Somewhat limited Depth to saturated zone	0.76
UbC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage, bottom layer	1.00	Very limited Seepage	1.00	Somewhat limited Seepage	0.21
Ubd: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage, bottom layer Slope	1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Seepage	1.00 0.21
UcC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Not limited		Not rated		Not rated	
UcF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
UdC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage, bottom layer Flooding	1.00 0.40	Very limited Seepage Flooding	1.00 0.40	Somewhat limited Seepage	0.21
UeC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

# Soil Survey of Jefferson County, Kentucky

Table 14.--Sanitary Facilities, Part II--Cont=inued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UfC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone	1.00
UgC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to bedrock Depth to saturatd zone	1.00 0.98	Somewhat limited Depth to saturated zone Depth to bedrock	0.56 0.01	Somewhat limited Depth to saturated zone Depth to bedrock	0.76 0.01
UhC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.75	Somewhat limited Depth to saturated zone	0.86
UiC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to bedrock Too clayey	1.00 1.00	Somewhat limited Depth to bedrock	0.61	Very limited Too clayey Hard to compact Depth to bedrock	1.00 1.00 0.61
UiD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Slope Depth to bedrock	1.00 0.61	Very limited Too clayey Hard to compact Slope Depth to bedrock	1.00 1.00 1.00 0.61
UiF: Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Very limited Slope Depth to bedrock	1.00 1.00	Very limited Slope	1.00	Very limited Slope	1.00
UjC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to bedrock Too clayey	1.00 0.50	Not limited		Somewhat limited Too clayey	0.50

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UjD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Depth to bedrock Slope Too clayey	1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
UjF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Depth to bedrock Too clayey	1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
UkC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to bedrock Too clayey	1.00 1.00	Somewhat limited Depth to bedrock	0.61	Very limited Too clayey Hard to compact Depth to bedrock	1.00 1.00 0.61
Beasley-----	25	Very limited Depth to bedrock Too clayey	1.00 1.00	Somewhat limited Depth to bedrock	0.61	Very limited Too clayey Hard to compact Depth to bedrock	1.00 1.00 0.61
U1C: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to bedrock Too clayey	1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Too clayey Hard to compact Depth to bedrock	1.00 1.00 1.00
Caneyville-----	25	Very limited Depth to bedrock Too clayey	1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Too clayey Hard to compact Depth to bedrock	1.00 1.00 1.00
U1D: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 1.00
Caneyville-----	25	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UmC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
Crider-----	25	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
UmD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Crider-----	25	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
UnC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Too clayey Flooding	1.00 0.50 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Not limited	
Elk-----	25	Very limited Depth to saturated zone Too clayey Flooding	1.00 0.50 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Not limited	
UoC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Lawrence-----	25	Very limited Depth to saturated zone Too clayey	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
UpC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Too clayey Seepage, bottom layer Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Seepage	1.00 0.21

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UpC: Lawrence-----	25	Very limited Depth to saturated zone Too clayey Seepage, bottom layer Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Seepage	1.00 0.21
UqC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.75	Somewhat limited Depth to saturated zone	0.86
Nicholson-----	25	Very limited Depth to saturated zone	0.99	Somewhat limited Depth to saturated zone	0.75	Somewhat limited Depth to saturated zone	0.86
UrC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Somewhat limited Depth to saturated zone	0.88	Somewhat limited Depth to saturated zone	0.93
Otwood-----	25	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Somewhat limited Depth to saturated zone	0.88	Somewhat limited Depth to saturated zone	0.93
UsC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Seepage, bottom layer Flooding	1.00 1.00 0.40	Somewhat limited Depth to saturated zone Flooding	0.88 0.40	Somewhat limited Depth to saturated zone	0.93
Otwood-----	25	Very limited Depth to saturated zone Seepage, bottom layer Flooding	1.00 1.00 0.40	Somewhat limited Depth to saturated zone Flooding	0.88 0.40	Somewhat limited Depth to saturated zone	0.93
UtC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UtC: Robertsville-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
UuC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Not limited		Not limited		Not limited	
Sandview-----	25	Not limited		Not limited		Not limited	
UvC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Sciotoville-----	25	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
UwC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to bedrock Too clayey	1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Too clayey Hard to compact Depth to bedrock	1.00 1.00 1.00
Shrouts-----	25	Very limited Depth to bedrock Too clayey	1.00 1.00	Very limited Depth to bedrock	1.00	Very limited Too clayey Hard to compact Depth to bedrock	1.00 1.00 1.00
UwD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 1.00
Shrouts-----	25	Very limited Depth to bedrock Too clayey Slope	1.00 1.00 1.00	Very limited Depth to bedrock Slope	1.00 1.00	Very limited Too clayey Hard to compact Depth to bedrock Slope	1.00 1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UxC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Seepage	1.00 0.21
Weinbach-----	25	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Seepage	1.00 0.21
UyC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage, bottom layer	1.00	Very limited Seepage	1.00	Somewhat limited Seepage	0.15
Wheeling-----	25	Very limited Seepage, bottom layer	1.00	Very limited Seepage	1.00	Somewhat limited Seepage	0.21
UyD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage, bottom layer Slope	1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Seepage	1.00 0.15
Wheeling-----	25	Very limited Seepage, bottom layer Slope	1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Seepage	1.00 0.21
UzC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage, bottom layer Flooding	1.00 0.40	Very limited Seepage Flooding	1.00 0.40	Somewhat limited Seepage	0.15
Wheeling-----	25	Very limited Seepage, bottom layer Flooding	1.00 0.40	Very limited Seepage Flooding	1.00 0.40	Somewhat limited Seepage	0.21
W: Water-----	100	Not rated		Not rated		Not rated	
WeA: Weinbach-----	90	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Seepage	1.00 0.21

# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WeB: Weinbach-----	90	Very limited Depth to saturated zone Seepage, bottom layer	1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Seepage	1.00 0.21
WfA: Weinbach-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Seepage	1.00 0.21
WfB: Weinbach-----	90	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Seepage	1.00 0.21
WhA: Wheeling-----	90	Very limited Seepage, bottom layer	1.00	Very limited Seepage	1.00	Somewhat limited Seepage	0.21
WhB: Wheeling-----	90	Very limited Seepage, bottom layer	1.00	Very limited Seepage	1.00	Somewhat limited Seepage	0.21
WhC: Wheeling-----	90	Very limited Seepage, bottom layer Slope	1.00 0.04	Very limited Seepage Slope	1.00 0.04	Somewhat limited Seepage Slope	0.21 0.04
WhD: Wheeling-----	90	Very limited Seepage, bottom layer Slope	1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Seepage	1.00 0.21
WhF: Wheeling-----	90	Very limited Flooding Slope Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Slope Seepage	1.00 1.00 1.00	Very limited Slope Seepage	1.00 0.21
WkA: Wheeling-----	90	Very limited Flooding Seepage, bottom layer	1.00 1.00	Very limited Flooding Seepage	1.00 1.00	Somewhat limited Seepage	0.21



# Soil Survey of Jefferson County, Kentucky

Table 14.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WkB: Wheeling-----	90	Very limited Flooding Seepage, bottom layer	1.00 1.00	Very limited Flooding Seepage	1.00 1.00	Somewhat limited Seepage	0.21
WkC: Wheeling-----	90	Very limited Flooding Seepage, bottom layer Slope	1.00 1.00 0.04	Very limited Flooding Seepage Slope	1.00 1.00 0.04	Somewhat limited Seepage Slope	0.21 0.04
WkD: Wheeling-----	90	Very limited Flooding Seepage, bottom layer Slope	1.00 1.00 1.00	Very limited Flooding Slope Seepage	1.00 1.00 1.00	Very limited Slope Seepage	1.00 0.21
WkF: Wheeling-----	90	Very limited Slope Seepage, bottom layer	1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Seepage	1.00 0.21
WoA: Woolper-----	80	Somewhat limited Too clayey Flooding	0.50 0.40	Somewhat limited Flooding	0.40	Somewhat limited Too clayey	0.50
WoB: Woolper-----	80	Somewhat limited Too clayey Flooding	0.50 0.40	Somewhat limited Flooding	0.40	Somewhat limited Too clayey	0.50
WoC: Woolper-----	80	Somewhat limited Too clayey Flooding Slope	0.50 0.40 0.04	Somewhat limited Flooding Slope	0.40 0.04	Somewhat limited Too clayey Slope	0.50 0.04
ZpA: Zipp-----	90	Very limited Depth to saturated zone Too clayey Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Too clayey Hard to compact Ponding	1.00 1.00 1.00 1.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
AfB: Alford-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
AfC: Alford-----	90	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
AfD: Alford-----	85	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
AfF: Alford-----	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
BeB: Beasley-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
BeC: Beasley-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
BeD: Beasley-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Bo: Boonewood-----	90	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
CaB2: Caneyville-----	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
CaC2: Caneyville-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
CaD2: Caneyville-----	80	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
CcF2: Caneyville-----	70	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Rock outcrop-----	20	Not rated		Not rated	
CeF: Carpenter-----	70	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Cm: Cemeteries-----	100	Not rated		Not rated	
CnF: Chagrin-----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Nelse-----	35	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
Wheeling-----	10	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Co: Combs-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
CrA: Crider-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
CrB: Crider-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
CrC: Crider-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
CrD: Crider-----	80	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
DAM: Dam, large-----	100	Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated	
EkA: Elk-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
EkB: Elk-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
EkC: Elk-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
EkD: Elk-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
EoA: Elk-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
EoB: Elk-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
EoC: Elk-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
FaC: Faywood-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
FaD: Faywood-----	80	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
FeC3: Faywood-----	85	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
FeD3: Faywood-----	80	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
<b>FsF:</b>					
Faywood-----	40	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
Shrouts-----	30	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Beasley-----	25	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
<b>GpD:</b>					
Gilpin-----	80	Poor		Poor	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.00
<b>GwF:</b>					
Gilpin-----	45	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Weikert-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
<b>Ha:</b>					
Huntington-----	90	Poor		Poor	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.00
<b>Hf:</b>					
Huntington-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
<b>LaA:</b>					
Lawrence-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
<b>LaB:</b>					
Lawrence-----	90	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
<b>LbA:</b>					
Lawrence-----	90	Poor		Poor	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.00
<b>LbB:</b>					
Lawrence-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
Ld:					
Lindside-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Ln:					
Lindside-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Me:					
Melvin-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Mf:					
Melvin-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Ne:					
Newark-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Nf:					
Newark-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
NnA:					
Nicholson-----	90	Poor		Poor	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.00
NnB:					
Nicholson-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
NnC:					
Nicholson-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
No:					
Nolin-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
OtA:					
Otwood-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
OtB:					
Otwood-----	90	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
OtC:					
Otwood-----	90	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
OwA:					
Otwood-----	90	Poor		Poor	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.00
OwB:					
Otwood-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
OwC:					
Otwood-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Pa:					
Patton-----	90	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
Pt:					
Pits, quarries-----	100	Not rated		Not rated	
RoA:					
Robertsville-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
RpA:					
Robertsville-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
SaB:					
Sandview-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
SaC:					
Sandview-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
ScA:					
Sciotoville-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
ScB:					
Sciotoville-----	90	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
ScC: Sciotoville-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
SdA: Sciotoville-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
SdB: Sciotoville-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
ShC3: Shrouts-----	75	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
ShD3: Shrouts-----	75	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
TjB: Tilsit-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
TjC: Tilsit-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
TjD: Tilsit-----	90	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Ua: Urban land-----	95	Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated	
Haplic Udarents----	25	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Boonewood-----	25	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
UacB: Urban land-----	50	Not rated		Not rated	
Haplic Udarents----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00



# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
UacB: Combs-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
UadB: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Melvin-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
UaeB: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Newark-----	25	Poor Thickest layer Bottom layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
UafC: Urban land-----	50	Not rated		Not rated	
Haplic Udarents-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
Zipp-----	25	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Thickest layer Bottom layer	 0.00 0.00
UagB: Urban land-----	60	Not rated		Not rated	
Udarents-----	40	Poor Bottom layer Thickest layer	 0.00 0.00	Poor Bottom layer Thickest layer	 0.00 0.00
UahC: Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UaiC: Urban land-----	60	Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated	
UajF: Urban land-----	50	Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
UakF:					
Urban land-----	30	Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated	
UamC:					
Urban land-----	50	Not rated		Not rated	
Ultic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Tilsit-----	25	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
Ubc:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Ubd:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
UcC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UcF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UdC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UeC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
UfC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UgC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UhC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UiC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UiD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UiF:					
Urban land-----	60	Not rated		Not rated	
Ultic Udarents-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UjC:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UjD:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UjF:					
Urban land-----	60	Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
UkC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Beasley-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UIC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Caneyville-----	25	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
UID:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Caneyville-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UmC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Crider-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UmD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Crider-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
UnC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Elk-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UoC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Lawrence-----	25	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
UpC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Lawrence-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UqC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Nicholson-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UrC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Otwood-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
UsC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Otwood-----	25	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
UtC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Robertsville-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UuC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Sandview-----	25	Poor		Poor	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.00
UvC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Sciotoville-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UwC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Shrouts-----	25	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
UwD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Shrouts-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UxC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Weinbach-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
UyC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Wheeling-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UyD:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Wheeling-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
UzC:					
Urban land-----	50	Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Wheeling-----	25	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
W:					
Water-----	100	Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
WeA: Weinbach-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
WeB: Weinbach-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
WfA: Weinbach-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
WfB: Weinbach-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
WhA: Wheeling-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
WhB: Wheeling-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
WhC: Wheeling-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
WhD: Wheeling-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
WhF: Wheeling-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Thickest layer Bottom layer	0.00 0.00
WkA: Wheeling-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
WkB: Wheeling-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
WkC: Wheeling-----	90	Poor Thickest layer Bottom layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00



# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
WkD: Wheeling-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
WkF: Wheeling-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
WoA: Woolper-----	80	Poor		Poor	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.00
WoB: Woolper-----	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
WoC: Woolper-----	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
ZpA: Zipp-----	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 0.99. The smaller the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Fair Too acid Organic matter content low Water erosion	 0.32 0.50 0.99	Poor Low strength Shrink-swell	 0.00 0.91	Fair Too acid	 0.88
AfC: Alford-----	90	Fair Too acid Organic matter content low Water erosion	 0.32 0.50 0.99	Poor Low strength Shrink-swell	 0.00 0.91	Fair Too acid Slope	 0.88 0.96
AfD: Alford-----	85	Fair Too acid Organic matter content low Water erosion	 0.32 0.50 0.99	Poor Low strength Slope Shrink-swell	 0.00 0.76 0.91	Poor Slope Too acid	 0.00 0.88
AfF: Alford-----	80	Fair Too acid Organic matter content low Water erosion	 0.32 0.50 0.99	Poor Low strength Slope Shrink-swell	 0.00 0.00 0.91	Poor Slope Too acid	 0.00 0.88
BeB: Beasley-----	80	Poor Too clayey Organic matter content low Too acid Water erosion	 0.00 0.18 0.84 0.90	Poor Low strength Depth to bedrock Shrink-swell	 0.00 0.39 0.87	Poor Too clayey Hard to reclaim (rock fragments) Rock fragments	 0.00 0.95 0.98
BeC: Beasley-----	80	Poor Too clayey Organic matter content low Too acid Water erosion	 0.00 0.18 0.84 0.90	Poor Low strength Depth to bedrock Shrink-swell	 0.00 0.39 0.87	Poor Too clayey Hard to reclaim (rock fragments) Slope Rock fragments	 0.00 0.95 0.96 0.98
BeD: Beasley-----	80	Poor Too clayey Organic matter content low Too acid Water erosion	 0.00 0.18 0.84 0.90	Poor Low strength Depth to bedrock Slope Shrink-swell	 0.00 0.39 0.76 0.87	Poor Slope Too clayey Hard to reclaim (rock fragments) Rock fragments	 0.00 0.00 0.95 0.98

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bo: Boonewood-----	90	Fair Droughty Organic matter content low Depth to bedrock Water erosion	0.05 0.12 0.54 0.99	Poor Depth to bedrock Low strength Wetness depth	0.00 0.00 0.44	Fair Wetness depth Depth to bedrock	0.44 0.54
CaB2: Caneyville-----	80	Poor Too clayey Organic matter content low Depth to bedrock Droughty Too acid Water erosion	0.00 0.12 0.54 0.59 0.88 0.90	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Poor Too clayey Depth to bedrock Rock fragments	0.00 0.54 0.97
CaC2: Caneyville-----	80	Poor Too clayey Organic matter content low Depth to bedrock Droughty Too acid Water erosion	0.00 0.12 0.54 0.59 0.88 0.90	Poor Low strength Depth to bedrock Shrink-swell	0.00 0.00 0.87	Poor Too clayey Depth to bedrock Slope Rock fragments	0.00 0.54 0.96 0.97
CaD2: Caneyville-----	80	Poor Too clayey Organic matter content low Depth to bedrock Droughty Too acid Water erosion	0.00 0.12 0.54 0.59 0.88 0.90	Poor Low strength Depth to bedrock Slope Shrink-swell	0.00 0.00 0.76 0.87	Poor Too clayey Slope Depth to bedrock Rock fragments	0.00 0.00 0.54 0.97
CcF2: Caneyville-----	70	Poor Too clayey Organic matter content low Depth to bedrock Droughty Too acid Water erosion	0.00 0.12 0.54 0.59 0.88 0.90	Poor Low strength Depth to bedrock Slope Shrink-swell	0.00 0.00 0.00 0.87	Poor Slope Too clayey Depth to bedrock Rock fragments	0.00 0.00 0.54 0.97
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Fair Organic matter content low Too acid Too clayey	0.12 0.54 0.92	Poor Low strength Slope Depth to bedrock	0.00 0.00 0.16	Poor Slope Hard to reclaim (rock fragments) Too clayey Rock fragments	0.00 0.50 0.53 0.82
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CnF: Chagrín-----	35	Fair Organic matter content low	0.75	Good		Fair Slope	0.09
Nelse-----	35	Fair Organic matter content low	0.75	Good		Fair Slope	0.09
Wheeling-----	10	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Poor Slope	0.00	Poor Slope Too acid	0.00 0.92
Co: Combs-----	90	Good		Good		Good	
CrA: Crider-----	90	Fair Organic matter content low Too acid	0.12 0.74	Poor Low strength Shrink-swell	0.00 0.98	Good	
CrB: Crider-----	90	Fair Organic matter content low Too acid	0.12 0.74	Poor Low strength Shrink-swell	0.00 0.98	Good	
CrC: Crider-----	90	Fair Organic matter content low Too acid	0.12 0.74	Poor Low strength Shrink-swell	0.00 0.98	Fair Slope	0.96
CrD: Crider-----	80	Fair Organic matter content low Too acid	0.12 0.74	Poor Low strength Shrink-swell Slope	0.00 0.98 0.98	Poor Slope	0.00
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Fair Too acid Organic matter content low Water erosion	0.68 0.88 0.99	Poor Low strength	0.00	Good	
EkB: Elk-----	90	Fair Too acid Organic matter content low Water erosion	0.68 0.88 0.99	Poor Low strength	0.00	Good	

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EkC: Elk-----	90	Fair Too acid Organic matter content low Water erosion	 0.68 0.88 0.99	Poor Low strength	 0.00	Fair Slope	 0.96
EkD: Elk-----	90	Fair Too acid Organic matter content low Water erosion	 0.68 0.88 0.99	Poor Low strength Slope	 0.00 0.76	Poor Slope	 0.00
EoA: Elk-----	90	Fair Too acid Organic matter content low Water erosion	 0.68 0.88 0.99	Poor Low strength	 0.00	Good	
EoB: Elk-----	90	Fair Too acid Organic matter content low Water erosion	 0.68 0.88 0.99	Poor Low strength	 0.00	Good	
EoC: Elk-----	90	Fair Too acid Organic matter content low Water erosion	 0.68 0.88 0.99	Poor Low strength	 0.00	Fair Slope	 0.96
FaC: Faywood-----	80	Poor Too clayey Organic matter content low Depth to bedrock Droughty Water erosion	 0.00 0.12 0.46 0.68 0.99	Poor Low strength Depth to bedrock Shrink-swell	 0.00 0.00 0.87	Poor Too clayey Depth to bedrock Slope	 0.00 0.46 0.96
FaD: Faywood-----	80	Poor Too clayey Organic matter content low Depth to bedrock Droughty Water erosion	 0.00 0.12 0.46 0.68 0.99	Poor Depth to bedrock Low strength Slope Shrink-swell	 0.00 0.00 0.76 0.87	Poor Slope Too clayey Depth to bedrock	 0.00 0.00 0.46
FeC3: Faywood-----	85	Poor Too clayey Organic matter content low Depth to bedrock Droughty Water erosion	 0.00 0.12 0.79 0.84 0.99	Poor Low strength Depth to bedrock Shrink-swell	 0.00 0.00 0.87	Poor Too clayey Depth to bedrock Slope	 0.00 0.79 0.96

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FeD3: Faywood-----	80	Poor Too clayey Organic matter content low Depth to bedrock Droughty Water erosion	 0.00 0.12  0.79 0.84 0.99	Poor Low strength Depth to bedrock Slope Shrink-swell	 0.00 0.00 0.76 0.87	Poor Too clayey Slope Depth to bedrock	 0.00 0.00 0.79
FsF: Faywood-----	40	Poor Too clayey Organic matter content low Depth to bedrock Droughty Water erosion	 0.00 0.12  0.46 0.68 0.99	Poor Slope Low strength Depth to bedrock Shrink-swell	 0.00 0.00 0.00 0.87	Poor Slope Too clayey Depth to bedrock	 0.00 0.00 0.46
Shrouds-----	30	Poor Too clayey Organic matter content low Droughty Water erosion Depth to bedrock	 0.00 0.12  0.68 0.90 0.90	Poor Slope Low strength Depth to bedrock Shrink-swell	 0.00 0.00 0.00 0.87	Poor Slope Too clayey Depth to bedrock	 0.00 0.00 0.90
Beasley-----	25	Poor Too clayey Organic matter content low Too acid Water erosion	 0.00 0.18  0.84 0.90	Poor Slope Low strength Depth to bedrock Shrink-swell	 0.00 0.00 0.39 0.87	Poor Slope Too clayey Hard to reclaim (rock fragments) Rock fragments	 0.00 0.00 0.95 0.98
GpD: Gilpin-----	80	Fair Droughty Too acid Depth to bedrock	 0.32 0.50 0.65	Poor Low strength Depth to bedrock Slope	 0.00 0.00 0.76	Poor Slope Too acid Depth to bedrock Rock fragments	 0.00 0.59 0.65 0.96
GwF: Gilpin-----	45	Fair Droughty Too acid Depth to bedrock	 0.32 0.50 0.65	Poor Slope Depth to bedrock Low strength	 0.00 0.00 0.00	Poor Slope Too acid Depth to bedrock Rock fragments	 0.00 0.59 0.65 0.96
Weikert-----	40	Poor Droughty Depth to bedrock Organic matter content low Too acid	 0.00 0.00 0.12  0.54	Poor Depth to bedrock Slope	 0.00 0.00	Poor Slope Rock fragments Depth to bedrock Too acid	 0.00 0.00 0.00 0.98
Ha: Huntington-----	90	Fair Organic matter content low	 0.12	Poor Low strength	 0.00	Good	

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hf: Huntington-----	90	Fair Organic matter content low	0.12	Poor Low strength	0.00	Good	
LaA: Lawrence-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth	0.04
LaB: Lawrence-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth	0.04
LbA: Lawrence-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth	0.04
LbB: Lawrence-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth	0.04
Ld: Lindside-----	90	Fair Organic matter content low Water erosion	0.12 0.99	Poor Low strength Wetness depth	0.00 0.73	Fair Wetness depth	0.73
Ln: Lindside-----	90	Fair Organic matter content low Water erosion	0.12 0.99	Poor Low strength Wetness depth	0.00 0.73	Fair Wetness depth	0.73
Me: Melvin-----	90	Fair Water erosion	0.90	Poor Low strength Wetness depth	0.00 0.00	Poor Wetness depth	0.00
Mf: Melvin-----	90	Fair Water erosion	0.90	Poor Wetness depth Low strength	0.00 0.00	Poor Wetness depth	0.00
Ne: Newark-----	90	Fair Organic matter content low Water erosion	0.12 0.90	Poor Low strength Wetness depth	0.00 0.02	Fair Wetness depth	0.02

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Nf: Newark-----	90	Fair Organic matter content low Water erosion	0.12 0.90	Poor Low strength Wetness depth	0.00 0.02	Fair Wetness depth	0.02
NnA: Nicholson-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.68 0.90	Poor Low strength Wetness depth	0.00 0.53	Fair Wetness depth	0.53
NnB: Nicholson-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.68 0.90	Poor Low strength Wetness depth	0.00 0.53	Fair Wetness depth	0.53
NnC: Nicholson-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.68 0.90	Poor Low strength Wetness depth	0.00 0.53	Fair Wetness depth Slope	0.53 0.96
No: Nolin-----	90	Fair Water erosion	0.90	Poor Low strength	0.00	Good	
OtA: Otwood-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth Shrink-swell	0.00 0.38 0.87	Fair Wetness depth Too acid	0.38 0.88
OtB: Otwood-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth Shrink-swell	0.00 0.38 0.87	Fair Wetness depth Too acid	0.38 0.88
OtC: Otwood-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth Shrink-swell	0.00 0.38 0.87	Fair Wetness depth Too acid Slope	0.38 0.88 0.96
OwA: Otwood-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth Shrink-swell	0.00 0.38 0.87	Fair Wetness depth Too acid	0.38 0.88



# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OwB: Otwood-----	90	Fair		Poor		Fair	
		Organic matter content low	0.12	Low strength	0.00	Wetness depth	0.38
		Too acid	0.32	Wetness depth	0.38	Too acid	0.88
		Water erosion	0.90	Shrink-swell	0.87		
OwC: Otwood-----	90	Fair		Poor		Fair	
		Organic matter content low	0.12	Low strength	0.00	Wetness depth	0.38
		Too acid	0.32	Wetness depth	0.38	Too acid	0.88
		Water erosion	0.90	Shrink-swell	0.87	Slope	0.96
Pa: Patton-----	90	Fair		Poor		Poor	
		Organic matter content low	0.88	Wetness depth	0.00	Wetness depth	0.00
		Water erosion	0.90	Low strength	0.00		
				Shrink-swell	0.89		
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	
RoA: Robertsville-----	90	Fair		Poor		Poor	
		Too acid	0.12	Wetness depth	0.00	Wetness depth	0.00
		Organic matter content low	0.12	Low strength	0.00	Too acid	0.59
		Water erosion	0.90				
RpA: Robertsville-----	90	Fair		Poor		Poor	
		Too acid	0.12	Low strength	0.00	Wetness depth	0.00
		Organic matter content low	0.12	Wetness depth	0.00	Too acid	0.59
		Water erosion	0.90				
SaB: Sandview-----	90	Fair		Poor		Good	
		Organic matter content low	0.12	Low strength	0.00		
		Too acid	0.54				
		Water erosion	0.99				
SaC: Sandview-----	90	Fair		Poor		Fair	
		Organic matter content low	0.12	Low strength	0.00	Slope	0.96
		Too acid	0.54				
		Water erosion	0.99				
ScA: Sciotoville-----	90	Fair		Poor		Fair	
		Organic matter content low	0.02	Low strength	0.00	Wetness depth	0.04
		Too acid	0.32	Wetness depth	0.04	Too acid	0.88
		Water erosion	0.99	Shrink-swell	0.94		

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ScB: Sciotoville-----	90	Fair		Poor		Fair	
		Organic matter content low	0.02	Low strength	0.00	Wetness depth	0.04
		Too acid	0.32	Wetness depth	0.04	Too acid	0.88
		Water erosion	0.99	Shrink-swell	0.94		
ScC: Sciotoville-----	90	Fair		Poor		Fair	
		Organic matter content low	0.02	Low strength	0.00	Wetness depth	0.04
		Too acid	0.32	Wetness depth	0.04	Too acid	0.88
		Water erosion	0.99	Shrink-swell	0.94	Slope	0.96
SdA: Sciotoville-----	90	Fair		Poor		Fair	
		Organic matter content low	0.02	Low strength	0.00	Wetness depth	0.04
		Too acid	0.32	Wetness depth	0.04	Too acid	0.88
		Water erosion	0.99	Shrink-swell	0.94		
SdB: Sciotoville-----	90	Fair		Poor		Fair	
		Organic matter content low	0.02	Low strength	0.00	Wetness depth	0.04
		Too acid	0.32	Wetness depth	0.04	Too acid	0.88
		Water erosion	0.99	Shrink-swell	0.94		
ShC3: Shrouts-----	75	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too clayey	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Depth to bedrock	0.90
		Droughty	0.68	Shrink-swell	0.87	Slope	0.96
		Water erosion	0.90				
		Depth to bedrock	0.90				
ShD3: Shrouts-----	75	Poor		Poor		Poor	
		Too clayey	0.00	Depth to bedrock	0.00	Slope	0.00
		Organic matter content low	0.12	Low strength	0.00	Too clayey	0.00
		Droughty	0.68	Slope	0.76	Depth to bedrock	0.90
		Water erosion	0.90	Shrink-swell	0.87		
		Depth to bedrock	0.90				
TjB: Tilsit-----	90	Fair		Poor		Fair	
		Too acid	0.08	Low strength	0.00	Too acid	0.50
		Organic matter content low	0.12	Wetness depth	0.68	Wetness depth	0.68
		Water erosion	0.90			Hard to reclaim (rock fragments)	0.95
TjC: Tilsit-----	90	Fair		Poor		Fair	
		Too acid	0.08	Low strength	0.00	Too acid	0.50
		Organic matter content low	0.12	Wetness depth	0.68	Wetness depth	0.68
		Water erosion	0.90			Hard to reclaim (rock fragments)	0.95
						Slope	0.96

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
TjD: Tilsit-----	90	Fair Too acid Organic matter content low Water erosion	 0.08 0.12 0.90	Poor Low strength Wetness depth Slope	 0.00 0.68 0.76	Poor Slope Too acid Wetness depth Hard to reclaim (rock fragments)	 0.00 0.50 0.68 0.95
Ua: Urban land-----	95	Not rated		Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Poor Droughty Organic matter content low Depth to bedrock Water erosion	 0.00 0.12 0.54 0.99	Poor Depth to bedrock Low strength Wetness depth	 0.00 0.00 0.44	Fair Wetness depth Depth to bedrock	 0.44 0.54
Boonewood-----	25	Fair Droughty Organic matter content low Depth to bedrock Water erosion	 0.05 0.12 0.54 0.99	Poor Low strength Depth to bedrock Wetness depth	 0.00 0.00 0.44	Fair Wetness depth Depth to bedrock	 0.44 0.54
UacB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Good		Good		Good	
Combs-----	25	Good		Good		Good	
UadB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Fair Water erosion	 0.90	Poor Wetness depth Low strength	 0.00 0.00	Poor Wetness depth	 0.00
Melvin-----	25	Fair Water erosion	 0.90	Poor Wetness depth Low strength	 0.00 0.00	Poor Wetness depth	 0.00
UaeB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Fair Organic matter content low Water erosion	 0.12 0.90	Poor Low strength Wetness depth	 0.00 0.02	Fair Wetness depth	 0.02
Newark-----	25	Fair Organic matter content low Water erosion	 0.12 0.90	Poor Low strength Wetness depth	 0.00 0.02	Fair Wetness depth	 0.02

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UafC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Poor		Poor		Poor	
		Too clayey	0.00	Wetness depth	0.00	Too clayey	0.00
		Organic matter	0.88	Low strength	0.00	Wetness depth	0.00
		content low		Shrink-swell	0.12		
Zipp-----	25	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too clayey	0.00
		Organic matter	0.88	Wetness depth	0.00	Wetness depth	0.00
		content low		Shrink-swell	0.12		
UagB:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Fair		Poor		Fair	
		Organic matter	0.12	Low strength	0.00	Wetness depth	0.44
		content low		Wetness depth	0.44		
		Droughty	0.55	Depth to bedrock	0.58		
		Water erosion	0.99				
UahC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UaiC:							
Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UajF:							
Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF:							
Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Fair		Poor		Fair	
		Too acid	0.08	Low strength	0.00	Too acid	0.50
		Organic matter	0.12	Wetness depth	0.68	Wetness depth	0.68
		content low				Hard to reclaim	0.95
		Water erosion	0.90			(rock fragments)	
Tilsit-----	25	Fair		Poor		Fair	
		Too acid	0.08	Low strength	0.00	Too acid	0.50
		Organic matter	0.12	Wetness depth	0.68	Wetness depth	0.68
		content low				Hard to reclaim	0.95
		Water erosion	0.90			(rock fragments)	

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UbC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair Organic matter content low Too acid	0.12 0.39	Good		Fair Too acid	0.92
UbD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair Organic matter content low Too acid	0.12 0.39	Fair Slope	0.76	Poor Slope Too acid	0.00 0.92
UcC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair Organic matter content low Too acid	0.12 0.39	Good		Fair Too acid	0.92
UcF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair Organic matter content low Too acid	0.12 0.39	Poor Slope	0.00	Poor Slope Too acid	0.00 0.92
UdC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair Organic matter content low Too acid	0.12 0.39	Good		Fair Too acid	0.92
UeC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth Too acid	0.04 0.88
UfC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth Too acid	0.04 0.88

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UgC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair		Poor		Fair	
		Too acid	0.08	Low strength	0.00	Too acid	0.50
		Organic matter	0.12	Wetness depth	0.68	Wetness depth	0.68
		content low		Depth to bedrock	0.99		
		Water erosion	0.90				
UhC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair		Poor		Fair	
		Organic matter	0.12	Low strength	0.00	Wetness depth	0.53
		content low		Wetness depth	0.53		
		Too acid	0.68				
		Water erosion	0.90				
UiC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too clayey	0.00
		Organic matter	0.18	Depth to bedrock	0.39	Rock fragments	0.95
		content low		Shrink-swell	0.87	Hard to reclaim	0.95
		Too acid	0.84			(rock fragments)	
UiD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Slope	0.00
		Organic matter	0.18	Depth to bedrock	0.39	Too clayey	0.00
		content low		Slope	0.76	Rock fragments	0.95
		Too acid	0.84	Shrink-swell	0.87	Hard to reclaim	0.95
						(rock fragments)	
UiF: Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Poor		Poor		Poor	
		Too acid	0.00	Slope	0.00	Slope	0.00
		Organic matter	0.50	Low strength	0.00	Hard to reclaim	0.50
		content low				(rock fragments)	
		Water erosion	0.99			Too acid	0.88
UjC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair		Poor		Fair	
		Organic matter	0.12	Low strength	0.00	Hard to reclaim	0.95
		content low		Shrink-swell	0.98	(rock fragments)	
		Too acid	0.80				

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UjD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair		Poor		Poor	
		Organic matter	0.12	Low strength	0.00	Slope	0.00
		content low		Slope	0.76	Hard to reclaim	0.95
		Too acid	0.80	Shrink-swell	0.98	(rock fragments)	
UjF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Fair		Poor		Poor	
		Organic matter	0.12	Slope	0.00	Slope	0.00
		content low		Low strength	0.00	Hard to reclaim	0.95
		Too acid	0.80	Shrink-swell	0.98	(rock fragments)	
UkC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too clayey	0.00
		Organic matter	0.18	Depth to bedrock	0.39	Rock fragments	0.95
		content low		Shrink-swell	0.87	Hard to reclaim	0.95
		Too acid	0.84			(rock fragments)	
Beasley-----	25	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too clayey	0.00
		Organic matter	0.18	Depth to bedrock	0.39	Hard to reclaim	0.95
		content low		Shrink-swell	0.87	(rock fragments)	
		Too acid	0.84			Rock fragments	0.98
		Water erosion	0.90				
U1C: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too clayey	0.00
		Organic matter	0.12	Depth to bedrock	0.00	Depth to bedrock	0.54
		content low		Shrink-swell	0.87	Rock fragments	0.95
		Depth to bedrock	0.54				
		Droughty	0.54				
		Too acid	0.88				
Caneyville-----	25	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too clayey	0.00
		Organic matter	0.12	Depth to bedrock	0.00	Depth to bedrock	0.54
		content low		Shrink-swell	0.87	Rock fragments	0.97
		Depth to bedrock	0.54				
		Droughty	0.59				
		Too acid	0.88				
		Water erosion	0.90				

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Uld:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Slope	0.00
		Organic matter	0.12	Depth to bedrock	0.00	Too clayey	0.00
		content low		Slope	0.76	Depth to bedrock	0.54
		Depth to bedrock	0.54	Shrink-swell	0.87	Rock fragments	0.95
		Droughty	0.54				
		Too acid	0.88				
Caneyville-----	25	Poor		Poor		Poor	
		Too clayey	0.00	Low strength	0.00	Too clayey	0.00
		Organic matter	0.12	Depth to bedrock	0.00	Slope	0.00
		content low		Slope	0.76	Depth to bedrock	0.54
		Depth to bedrock	0.54	Shrink-swell	0.87	Rock fragments	0.97
		Droughty	0.59				
		Too acid	0.88				
		Water erosion	0.90				
UmC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair		Poor		Good	
		Organic matter	0.12	Low strength	0.00		
		content low		Shrink-swell	0.98		
		Too acid	0.80				
Crider-----	25	Fair		Poor		Good	
		Organic matter	0.12	Low strength	0.00		
		content low		Shrink-swell	0.98		
		Too acid	0.74				
UmD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair		Poor		Poor	
		Organic matter	0.12	Low strength	0.00	Slope	0.00
		content low		Slope	0.76		
		Too acid	0.80	Shrink-swell	0.98		
Crider-----	25	Fair		Poor		Poor	
		Organic matter	0.12	Low strength	0.00	Slope	0.00
		content low		Slope	0.76		
		Too acid	0.74	Shrink-swell	0.98		
UnC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair		Poor		Good	
		Too acid	0.68	Low strength	0.00		
		Organic matter	0.88				
		content low					
		Water erosion	0.99				
Elk-----	25	Fair		Poor		Good	
		Too acid	0.68	Low strength	0.00		
		Organic matter	0.88				
		content low					
		Water erosion	0.99				



# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UoC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth	0.04
Lawrence-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth	0.04
UpC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth	0.04
Lawrence-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth	0.04
UqC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.68 0.90	Poor Low strength Wetness depth	0.00 0.53	Fair Wetness depth	0.53
Nicholson-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.68 0.90	Poor Low strength Wetness depth	0.00 0.53	Fair Wetness depth	0.53
UrC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth Shrink-swell	0.00 0.38 0.87	Fair Wetness depth Too acid	0.38 0.88
Otwood-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth Shrink-swell	0.00 0.38 0.87	Fair Wetness depth Too acid	0.38 0.88

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UsC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair		Poor		Fair	
		Organic matter	0.12	Low strength	0.00	Wetness depth	0.38
		content low		Wetness depth	0.38	Too acid	0.88
		Too acid	0.32	Shrink-swell	0.87		
		Water erosion	0.90				
Otwood-----	25	Fair		Poor		Fair	
		Organic matter	0.12	Low strength	0.00	Wetness depth	0.38
		content low		Wetness depth	0.38	Too acid	0.88
		Too acid	0.32	Shrink-swell	0.87		
		Water erosion	0.90				
UtC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair		Poor		Poor	
		Too acid	0.12	Wetness depth	0.00	Wetness depth	0.00
		Organic matter	0.12	Low strength	0.00	Too acid	0.59
		content low					
		Water erosion	0.90				
Robertsville-----	25	Fair		Poor		Poor	
		Too acid	0.12	Wetness depth	0.00	Wetness depth	0.00
		Organic matter	0.12	Low strength	0.00	Too acid	0.59
		content low					
		Water erosion	0.90				
UuC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair		Poor		Good	
		Organic matter	0.12	Low strength	0.00		
		content low					
		Too acid	0.88				
Sandview-----	25	Fair		Poor		Good	
		Organic matter	0.12	Low strength	0.00		
		content low					
		Too acid	0.54				
		Water erosion	0.99				
UvC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair		Poor		Fair	
		Organic matter	0.02	Low strength	0.00	Wetness depth	0.04
		content low		Wetness depth	0.04	Too acid	0.88
		Too acid	0.32	Shrink-swell	0.94		
		Water erosion	0.99				
Sciotoville-----	25	Fair		Poor		Fair	
		Organic matter	0.02	Low strength	0.00	Wetness depth	0.04
		content low		Wetness depth	0.04	Too acid	0.88
		Too acid	0.32	Shrink-swell	0.94		
		Water erosion	0.99				

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UwC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poor Too clayey Organic matter content low Droughty Depth to bedrock	 0.00 0.12  0.64 0.90	Poor Low strength Depth to bedrock Shrink-swell	 0.00 0.00 0.87	Poor Too clayey Depth to bedrock	 0.00 0.90
Shrouts-----	25	Poor Too clayey Organic matter content low Droughty Water erosion Depth to bedrock	 0.00 0.12  0.68 0.90 0.90	Poor Low strength Depth to bedrock Shrink-swell	 0.00 0.00 0.87	Poor Too clayey Depth to bedrock	 0.00 0.90
UwD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Poor Too clayey Organic matter content low Droughty Depth to bedrock	 0.00 0.12  0.64 0.90	Poor Low strength Depth to bedrock Slope Shrink-swell	 0.00 0.00 0.76 0.87	Poor Too clayey Slope Depth to bedrock	 0.00 0.00 0.90
Shrouts-----	25	Poor Too clayey Organic matter content low Droughty Water erosion Depth to bedrock	 0.00 0.12  0.68 0.90 0.90	Poor Depth to bedrock Low strength Slope Shrink-swell	 0.00 0.00 0.76 0.87	Poor Too clayey Slope Depth to bedrock	 0.00 0.00 0.90
UxC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair Organic matter content low Too acid Water erosion	 0.12  0.32 0.90	Poor Low strength Wetness depth	 0.00 0.04	Fair Wetness depth Too acid	 0.04 0.88
Weinbach-----	25	Fair Organic matter content low Too acid Water erosion	 0.12  0.32 0.90	Poor Low strength Wetness depth	 0.00 0.04	Fair Wetness depth Too acid	 0.04 0.88
UyC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair Organic matter content low Too acid	 0.12  0.39	Good		Fair Too acid	 0.92

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UyC: Wheeling-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Good		Fair Too acid	0.92
UyD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair Organic matter content low Too acid	0.12 0.39	Fair Slope	0.76	Poor Slope Too acid	0.00 0.92
Wheeling-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Fair Slope	0.76	Poor Slope Too acid	0.00 0.92
UzC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Fair Organic matter content low Too acid	0.12 0.39	Good		Fair Too acid	0.92
Wheeling-----	25	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Good		Fair Too acid	0.92
W: Water-----	100	Not rated		Not rated		Not rated	
WeA: Weinbach-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth Too acid	0.04 0.88
WeB: Weinbach-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth Too acid	0.04 0.88
WfA: Weinbach-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth Too acid	0.04 0.88

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WfB: Weinbach-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.90	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth Too acid	0.04 0.88
WhA: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Good		Fair Too acid	0.92
WhB: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Good		Fair Too acid	0.92
WhC: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Good		Fair Too acid Slope	0.92 0.96
WhD: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Fair Slope	0.76	Poor Slope Too acid	0.00 0.92
WhF: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Poor Slope	0.00	Poor Slope Too acid	0.00 0.92
WkA: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Good		Fair Too acid	0.92
WkB: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Good		Fair Too acid	0.92

# Soil Survey of Jefferson County, Kentucky

Table 15.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WkC: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Good		Fair Too acid Slope	0.92 0.96
WkD: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Fair Slope	0.76	Poor Slope Too acid	0.00 0.92
WkF: Wheeling-----	90	Fair Organic matter content low Too acid Water erosion	0.12 0.39 0.99	Poor Slope	0.00	Poor Slope Too acid	0.00 0.92
WoA: Woolper-----	80	Fair Too clayey Organic matter content low Water erosion	0.08 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.90	Fair Too clayey	0.05
WoB: Woolper-----	80	Fair Too clayey Organic matter content low Water erosion	0.08 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.90	Fair Too clayey	0.05
WoC: Woolper-----	80	Fair Too clayey Organic matter content low Water erosion	0.08 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.90	Fair Too clayey Slope	0.05 0.96
ZpA: Zipp-----	90	Poor Too clayey Organic matter content low	0.00 0.88	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.12	Poor Too clayey Wetness depth	0.00 0.00

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alford-----	90	Somewhat limited Seepage Slope	0.72 0.08	Somewhat limited Piping	0.96	Very limited Depth to water	1.00
AfC: Alford-----	90	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.96	Very limited Depth to water	1.00
AfD: Alford-----	85	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.96	Very limited Depth to water	1.00
AfF: Alford-----	80	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.96	Very limited Depth to water	1.00
BeB: Beasley-----	80	Somewhat limited Slope Depth to bedrock	0.08 0.01	Somewhat limited Hard to pack Thin layer	0.41 0.16	Very limited Depth to water	1.00
BeC: Beasley-----	80	Very limited Slope Depth to bedrock	1.00 0.01	Somewhat limited Hard to pack Thin layer	0.41 0.16	Very limited Depth to water	1.00
BeD: Beasley-----	80	Very limited Slope Depth to bedrock	1.00 0.01	Somewhat limited Hard to pack Thin layer	0.41 0.16	Very limited Depth to water	1.00
Bo: Boonewood-----	90	Somewhat limited Depth to bedrock Seepage	0.86 0.72	Very limited Depth to saturated zone Piping Thin layer	1.00 0.93 0.86	Very limited Depth to hard bedrock Slow refill Cutbanks cave	1.00 0.28 0.10
CaB2: Caneyville-----	80	Somewhat limited Depth to bedrock Slope	0.86 0.08	Somewhat limited Thin layer Hard to pack	0.86 0.84	Very limited Depth to water	1.00
CaC2: Caneyville-----	80	Very limited Slope Depth to bedrock	1.00 0.86	Somewhat limited Thin layer Hard to pack	0.86 0.84	Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

## Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CaD2: Caneyville-----	80	Very limited Slope Depth to bedrock	1.00 0.86	Somewhat limited Thin layer Hard to pack	0.86 0.84	Very limited Depth to water	1.00
CcF2: Caneyville-----	70	Very limited Slope Depth to bedrock	1.00 0.86	Somewhat limited Thin layer Hard to pack	0.86 0.84	Very limited Depth to water	1.00
Rock outcrop-----	20	Not rated		Not rated		Not rated	
CeF: Carpenter-----	70	Very limited Slope Seepage Depth to bedrock	1.00 0.72 0.01	Somewhat limited Thin layer Piping	0.26 0.01	Very limited Depth to water	1.00
Cm: Cemeteries-----	100	Not rated		Not rated		Not rated	
CnF: Chagrin-----	35	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
Nelse-----	35	Very limited Seepage Slope	1.00 1.00	Not limited		Very limited Depth to water	1.00
Wheeling-----	10	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
Co: Combs-----	90	Very limited Seepage	1.00	Not limited		Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10
CrA: Crider-----	90	Somewhat limited Seepage	0.72	Not limited		Very limited Depth to water	1.00
CrB: Crider-----	90	Somewhat limited Seepage Slope	0.72 0.08	Not limited		Very limited Depth to water	1.00
CrC: Crider-----	90	Very limited Slope Seepage	1.00 0.72	Not limited		Very limited Depth to water	1.00
CrD: Crider-----	80	Very limited Slope Seepage	1.00 0.72	Not limited		Very limited Depth to water	1.00



# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DAM: Dam, large-----	100	Not rated		Not rated		Not rated	
Dp: Dumps, ash-----	100	Not rated		Not rated		Not rated	
EkA: Elk-----	90	Somewhat limited Seepage	0.72	Somewhat limited Piping	0.92	Very limited Cutbanks cave Depth to saturated zone Slow refill	1.00 0.92 0.28
EkB: Elk-----	90	Somewhat limited Seepage Slope	0.72 0.08	Somewhat limited Piping	0.92	Very limited Cutbanks cave Depth to saturated zone Slow refill	1.00 0.92 0.28
EkC: Elk-----	90	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.92	Very limited Cutbanks cave Depth to saturated zone Slow refill	1.00 0.92 0.28
EkD: Elk-----	90	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.92	Very limited Cutbanks cave Depth to saturated zone Slow refill	1.00 0.92 0.28
EoA: Elk-----	90	Somewhat limited Seepage	0.72	Somewhat limited Piping	0.92	Very limited Cutbanks cave Depth to saturated zone Slow refill	1.00 0.92 0.28
EoB: Elk-----	90	Somewhat limited Seepage Slope	0.72 0.08	Somewhat limited Piping	0.92	Very limited Cutbanks cave Depth to saturated zone Slow refill	1.00 0.92 0.28
EoC: Elk-----	90	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.92	Very limited Cutbanks cave Depth to saturated zone Slow refill	1.00 0.92 0.28
FaC: Faywood-----	80	Very limited Slope Depth to bedrock	1.00 0.88	Somewhat limited Thin layer Hard to pack	0.88 0.13	Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

## Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FaD: Faywood-----	80	Very limited Slope Depth to bedrock	1.00 0.88	Somewhat limited Thin layer Hard to pack	0.88 0.13	Very limited Depth to water	1.00
FeC3: Faywood-----	85	Very limited Slope Depth to bedrock	1.00 0.77	Somewhat limited Thin layer Hard to pack	0.77 0.39	Very limited Depth to water	1.00
FeD3: Faywood-----	80	Very limited Slope Depth to bedrock	1.00 0.77	Somewhat limited Thin layer Hard to pack	0.77 0.39	Very limited Depth to water	1.00
FsF: Faywood-----	40	Very limited Slope Depth to bedrock	1.00 0.88	Somewhat limited Thin layer Hard to pack	0.88 0.13	Very limited Depth to water	1.00
Shrouds-----	30	Very limited Slope Depth to bedrock	1.00 0.04	Somewhat limited Thin layer Hard to pack	0.70 0.50	Very limited Depth to water	1.00
Beasley-----	25	Very limited Slope Depth to bedrock	1.00 0.01	Somewhat limited Hard to pack Thin layer	0.41 0.16	Very limited Depth to water	1.00
GpD: Gilpin-----	80	Very limited Slope Seepage Depth to bedrock	1.00 0.72 0.09	Somewhat limited Piping Thin layer	0.84 0.83	Very limited Depth to water	1.00
GwF: Gilpin-----	45	Very limited Slope Seepage Depth to bedrock	1.00 0.72 0.09	Somewhat limited Piping Thin layer	0.84 0.83	Very limited Depth to water	1.00
Weikert-----	40	Very limited Slope Depth to bedrock	1.00 0.53	Very limited Thin layer	1.00	Very limited Depth to water	1.00
Ha: Huntington-----	90	Somewhat limited Seepage	0.72	Somewhat limited Piping	0.93	Somewhat limited Depth to saturated zone Slow refill Cutbanks cave	0.94 0.28 0.10
Hf: Huntington-----	90	Somewhat limited Seepage	0.72	Somewhat limited Piping	0.93	Somewhat limited Depth to saturated zone Slow refill Cutbanks cave	0.94 0.28 0.10

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
<b>LaA:</b> Lawrence-----	90	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.01	Very limited Depth to water	1.00
<b>LaB:</b> Lawrence-----	90	Somewhat limited Seepage Slope	0.72 0.08	Very limited Depth to saturated zone Piping	1.00 0.01	Very limited Depth to water	1.00
<b>LbA:</b> Lawrence-----	90	Very limited Seepage	1.00	Very limited Depth to saturated zone Piping	1.00 0.01	Very limited Depth to water	1.00
<b>LbB:</b> Lawrence-----	90	Very limited Seepage Slope	1.00 0.08	Very limited Depth to saturated zone Piping	1.00 0.01	Very limited Depth to water	1.00
<b>Ld:</b> Lindside-----	90	Very limited Seepage	1.00	Somewhat limited Depth to saturated zone Piping	0.96 0.78	Very limited Cutbanks cave Depth to saturated zone	1.00 0.02
<b>Ln:</b> Lindside-----	90	Very limited Seepage	1.00	Somewhat limited Depth to saturated zone Piping	0.96 0.78	Very limited Cutbanks cave Depth to saturated zone	1.00 0.02
<b>Me:</b> Melvin-----	90	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.72	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
<b>Mf:</b> Melvin-----	90	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.72	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
<b>Ne:</b> Newark-----	90	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.64	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
<b>Nf:</b> Newark-----	90	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.64	Somewhat limited Slow refill Cutbanks cave	0.28 0.10

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NnA: Nicholson-----	90	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	0.99 0.19	Very limited Depth to water	1.00
NnB: Nicholson-----	90	Somewhat limited Seepage Slope	0.72 0.08	Very limited Depth to saturated zone Piping	0.99 0.19	Very limited Depth to water	1.00
NnC: Nicholson-----	90	Very limited Slope Seepage	1.00 0.72	Very limited Depth to saturated zone Piping	0.99 0.19	Very limited Depth to water	1.00
No: Nolin-----	90	Somewhat limited Seepage	0.72	Somewhat limited Piping	0.88	Very limited Depth to water	1.00
OtA: Otwood-----	90	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.17	Very limited Depth to water	1.00
OtB: Otwood-----	90	Somewhat limited Seepage Slope	0.72 0.08	Very limited Depth to saturated zone Piping	1.00 0.17	Very limited Depth to water	1.00
OtC: Otwood-----	90	Very limited Slope Seepage	1.00 0.72	Very limited Depth to saturated zone Piping	1.00 0.17	Very limited Depth to water	1.00
OwA: Otwood-----	90	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.17	Very limited Depth to water	1.00
OwB: Otwood-----	90	Somewhat limited Seepage Slope	0.72 0.08	Very limited Depth to saturated zone Piping	1.00 0.17	Very limited Depth to water	1.00
OwC: Otwood-----	90	Very limited Slope Seepage	1.00 0.72	Very limited Depth to saturated zone Piping	1.00 0.17	Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Patton-----	90	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Ponding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
Pt: Pits, quarries-----	100	Not rated		Not rated		Not rated	
RoA: Robertsville-----	90	Not limited		Very limited Depth to saturated zone Piping	1.00 0.35	Very limited Depth to water	1.00
RpA: Robertsville-----	90	Not limited		Very limited Depth to saturated zone Ponding Piping	1.00 1.00 0.35	Very limited Depth to water	1.00
SaB: Sandview-----	90	Somewhat limited Seepage Slope	0.72 0.08	Not limited		Very limited Depth to water	1.00
SaC: Sandview-----	90	Very limited Slope Seepage	1.00 0.72	Not limited		Very limited Depth to water	1.00
ScA: Sciotoville-----	90	Not limited		Very limited Depth to saturated zone Piping	1.00 0.73	Very limited Depth to water	1.00
ScB: Sciotoville-----	90	Somewhat limited Slope	0.08	Very limited Depth to saturated zone Piping	1.00 0.73	Very limited Depth to water	1.00
ScC: Sciotoville-----	90	Very limited Slope	1.00	Very limited Depth to saturated zone Piping	1.00 0.73	Very limited Depth to water	1.00
SdA: Sciotoville-----	90	Not limited		Very limited Depth to saturated zone Piping	1.00 0.73	Very limited Depth to water	1.00
SdB: Sciotoville-----	90	Somewhat limited Slope	0.08	Very limited Depth to saturated zone Piping	1.00 0.73	Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ShC3: Shrouts-----	75	Very limited Slope Depth to bedrock	1.00 0.04	Somewhat limited Thin layer Hard to pack	0.70 0.50	Very limited Depth to water	1.00
ShD3: Shrouts-----	75	Very limited Slope Depth to bedrock	1.00 0.04	Somewhat limited Thin layer Hard to pack	0.70 0.50	Very limited Depth to water	1.00
TjB: Tilsit-----	90	Somewhat limited Seepage Slope	0.72 0.08	Somewhat limited Depth to saturated zone Piping	0.98 0.40	Very limited Depth to water	1.00
TjC: Tilsit-----	90	Very limited Slope Seepage	1.00 0.72	Somewhat limited Depth to saturated zone Piping	0.98 0.40	Very limited Depth to water	1.00
TjD: Tilsit-----	90	Very limited Slope Seepage	1.00 0.72	Somewhat limited Depth to saturated zone Piping	0.98 0.40	Very limited Depth to water	1.00
Ua: Urban land-----	95	Not rated		Not rated		Not rated	
UabC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Somewhat limited Depth to bedrock Slope Seepage	0.86 0.68 0.46	Very limited Depth to saturated zone Piping Thin layer	1.00 0.95 0.86	Very limited Depth to hard bedrock Slow refill Cutbanks cave	1.00 0.54 0.10
Boonewood-----	25	Somewhat limited Depth to bedrock Seepage	0.86 0.72	Very limited Depth to saturated zone Piping Thin layer	1.00 0.93 0.86	Very limited Depth to hard bedrock Slow refill Cutbanks cave	1.00 0.28 0.10
UacB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Very limited Seepage	1.00	Not limited		Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10
Combs-----	25	Very limited Seepage	1.00	Not limited		Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UadB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Somewhat limited Seepage	0.53	Very limited Depth to saturated zone Piping	1.00 0.69	Somewhat limited Slow refill Cutbanks cave	0.47 0.10
Melvin-----	25	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.72	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
UaeB: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Somewhat limited Seepage	0.46	Very limited Depth to saturated zone Piping	1.00 0.59	Somewhat limited Slow refill Cutbanks cave	0.54 0.10
Newark-----	25	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.64	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
UafC: Urban land-----	50	Not rated		Not rated		Not rated	
Haplic Udarents-----	25	Somewhat limited Slope	0.68	Very limited Depth to saturated zone Hard to pack	1.00 0.76	Very limited Slow refill Cutbanks cave	1.00 0.10
Zipp-----	25	Not limited		Very limited Depth to saturated zone Ponding Hard to pack	1.00 1.00 0.71	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
UagB: Urban land-----	60	Not rated		Not rated		Not rated	
Udarents-----	40	Somewhat limited Depth to bedrock Seepage	0.10 0.01	Very limited Depth to saturated zone Piping Thin layer	1.00 0.95 0.11	Somewhat limited Slow refill Depth to hard bedrock Cutbanks cave	0.99 0.42 0.10
UahC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	
UaiC: Urban land-----	60	Not rated		Not rated		Not rated	
Udorthents-----	40	Not rated		Not rated		Not rated	

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UajF: Urban land-----	50	Not rated		Not rated		Not rated	
Udorthents-----	50	Not rated		Not rated		Not rated	
UakF: Urban land-----	30	Not rated		Not rated		Not rated	
Udorthents-----	70	Not rated		Not rated		Not rated	
UamC: Urban land-----	50	Not rated		Not rated		Not rated	
Ultic Udarents-----	25	Somewhat limited Slope Seepage	0.68 0.53	Somewhat limited Depth to saturated zone Piping	0.98 0.31	Very limited Depth to water	1.00
Tilsit-----	25	Somewhat limited Seepage Slope	0.72 0.68	Somewhat limited Depth to saturated zone Piping	0.98 0.40	Very limited Depth to water	1.00
Ubc: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage Slope	1.00 0.68	Very limited Piping	1.00	Very limited Depth to water	1.00
Ubd: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
UcC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage Slope	1.00 0.68	Very limited Piping	1.00	Very limited Depth to water	1.00
UcF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
UdC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Seepage Slope	1.00 0.68	Very limited Piping	1.00	Very limited Depth to water	1.00



# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UeC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slope Seepage	0.68 0.02	Very limited Depth to saturated zone Piping	1.00 0.05	Very limited Depth to water	1.00
UfC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slope Seepage	0.68 0.02	Very limited Depth to saturated zone Piping	1.00 0.05	Very limited Depth to water	1.00
UgC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slope Seepage Depth to bedrock	0.68 0.02 0.01	Somewhat limited Depth to saturated zone Piping Thin layer	0.98 0.12 0.01	Very limited Depth to water	1.00
UhC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slope Seepage	0.68 0.02	Very limited Depth to saturated zone Piping	0.99 0.07	Very limited Depth to water	1.00
UiC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slope Depth to bedrock	0.68 0.01	Somewhat limited Hard to pack Thin layer	0.68 0.16	Very limited Depth to water	1.00
UiD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Depth to bedrock	1.00 0.01	Somewhat limited Hard to pack Thin layer	0.68 0.16	Very limited Depth to water	1.00
UiF: Urban land-----	60	Not rated		Not rated		Not rated	
Ultic Udarents-----	40	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.29	Very limited Depth to water	1.00
UjC: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Somewhat limited Slope Seepage	0.68 0.46	Not limited		Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UjD: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Seepage	1.00 0.46	Not limited		Very limited Depth to water	1.00
UjF: Urban land-----	60	Not rated		Not rated		Not rated	
Alfic Udarents-----	40	Very limited Slope Seepage	1.00 0.46	Not limited		Very limited Depth to water	1.00
UkC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope Depth to bedrock	0.68 0.01	Somewhat limited Hard to pack Thin layer	0.68 0.16	Very limited Depth to water	1.00
Beasley-----	25	Somewhat limited Slope Depth to bedrock	0.68 0.01	Somewhat limited Hard to pack Thin layer	0.41 0.16	Very limited Depth to water	1.00
U1C: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Depth to bedrock Slope	0.86 0.68	Somewhat limited Hard to pack Thin layer	0.92 0.86	Very limited Depth to water	1.00
Caneyville-----	25	Somewhat limited Depth to bedrock Slope	0.86 0.68	Somewhat limited Thin layer Hard to pack	0.86 0.84	Very limited Depth to water	1.00
U1D: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Depth to bedrock	1.00 0.86	Somewhat limited Hard to pack Thin layer	0.92 0.86	Very limited Depth to water	1.00
Caneyville-----	25	Very limited Slope Depth to bedrock	1.00 0.86	Somewhat limited Thin layer Hard to pack	0.86 0.84	Very limited Depth to water	1.00
UmC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope Seepage	0.68 0.46	Not limited		Very limited Depth to water	1.00
Crider-----	25	Somewhat limited Seepage Slope	0.72 0.68	Not limited		Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UmD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Seepage	1.00 0.46	Not limited		Very limited Depth to water	1.00
Crider-----	25	Very limited Slope Seepage	1.00 0.72	Not limited		Very limited Depth to water	1.00
UnC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope Seepage	0.68 0.46	Somewhat limited Piping	0.89	Very limited Cutbanks cave Depth to saturated zone Slow refill	1.00 0.92 0.54
Elk-----	25	Somewhat limited Seepage Slope	0.72 0.68	Somewhat limited Piping	0.92	Very limited Cutbanks cave Depth to saturated zone Slow refill	1.00 0.92 0.28
UoC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope Seepage	0.68 0.53	Very limited Depth to saturated zone	1.00	Very limited Depth to water	1.00
Lawrence-----	25	Somewhat limited Seepage Slope	0.72 0.68	Very limited Depth to saturated zone Piping	1.00 0.01	Very limited Depth to water	1.00
UpC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage Slope	1.00 0.68	Very limited Depth to saturated zone	1.00	Very limited Depth to water	1.00
Lawrence-----	25	Very limited Seepage Slope	1.00 0.68	Very limited Depth to saturated zone Piping	1.00 0.01	Very limited Depth to water	1.00
UqC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope Seepage	0.68 0.53	Very limited Depth to saturated zone Piping	0.99 0.12	Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UqC: Nicholson-----	25	Somewhat limited Seepage Slope	0.72 0.68	Very limited Depth to saturated zone Piping	0.99 0.19	Very limited Depth to water	1.00
UrC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope Seepage	0.68 0.53	Very limited Depth to saturated zone Piping	1.00 0.09	Very limited Depth to water	1.00
Otwood-----	25	Somewhat limited Seepage Slope	0.72 0.68	Very limited Depth to saturated zone Piping	1.00 0.17	Very limited Depth to water	1.00
UsC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope Seepage	0.68 0.53	Very limited Depth to saturated zone Piping	1.00 0.09	Very limited Depth to water	1.00
Otwood-----	25	Somewhat limited Seepage Slope	0.72 0.68	Very limited Depth to saturated zone Piping	1.00 0.17	Very limited Depth to water	1.00
UtC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope	0.68	Very limited Depth to saturated zone Piping	1.00 0.21	Very limited Depth to water	1.00
Robertsville-----	25	Not limited		Very limited Depth to saturated zone Piping	1.00 0.35	Very limited Depth to water	1.00
UuC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope Seepage	0.68 0.53	Not limited		Very limited Depth to water	1.00
Sandview-----	25	Somewhat limited Seepage Slope	0.72 0.68	Not limited		Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UvC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope	0.68	Very limited Depth to saturated zone Piping	1.00 0.62	Very limited Depth to water	1.00
Sciotoville-----	25	Somewhat limited Slope	0.68	Very limited Depth to saturated zone Piping	1.00 0.73	Very limited Depth to water	1.00
UwC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Somewhat limited Slope Depth to bedrock	0.68 0.04	Somewhat limited Thin layer Hard to pack	0.70 0.61	Very limited Depth to water	1.00
Shrouds-----	25	Somewhat limited Slope Depth to bedrock	0.68 0.04	Somewhat limited Thin layer Hard to pack	0.70 0.50	Very limited Depth to water	1.00
UwD: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Slope Depth to bedrock	1.00 0.04	Somewhat limited Thin layer Hard to pack	0.70 0.61	Very limited Depth to water	1.00
Shrouds-----	25	Very limited Slope Depth to bedrock	1.00 0.04	Somewhat limited Thin layer Hard to pack	0.70 0.50	Very limited Depth to water	1.00
UxC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage Slope	1.00 0.68	Very limited Depth to saturated zone Piping	1.00 0.05	Very limited Depth to water	1.00
Weinbach-----	25	Very limited Seepage Slope	1.00 0.68	Very limited Depth to saturated zone Piping	1.00 0.13	Very limited Depth to water	1.00
UyC: Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage Slope	1.00 0.68	Very limited Piping	1.00	Very limited Depth to water	1.00
Wheeling-----	25	Very limited Seepage Slope	1.00 0.68	Very limited Piping	1.00	Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UyD:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
Wheeling-----	25	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
UzC:							
Urban land-----	50	Not rated		Not rated		Not rated	
Alfic Udarents-----	25	Very limited Seepage Slope	1.00 0.68	Very limited Piping	1.00	Very limited Depth to water	1.00
Wheeling-----	25	Very limited Seepage Slope	1.00 0.68	Very limited Piping	1.00	Very limited Depth to water	1.00
W:							
Water-----	100	Not rated		Not rated		Not rated	
WeA:							
Weinbach-----	90	Very limited Seepage	1.00	Very limited Depth to saturated zone Piping	1.00 0.13	Very limited Depth to water	1.00
WeB:							
Weinbach-----	90	Very limited Seepage Slope	1.00 0.08	Very limited Depth to saturated zone Piping	1.00 0.13	Very limited Depth to water	1.00
WfA:							
Weinbach-----	90	Very limited Seepage	1.00	Very limited Depth to saturated zone Piping	1.00 0.13	Very limited Depth to water	1.00
WfB:							
Weinbach-----	90	Very limited Seepage Slope	1.00 0.08	Very limited Depth to saturated zone Piping	1.00 0.13	Very limited Depth to water	1.00
WhA:							
Wheeling-----	90	Very limited Seepage	1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
WhB:							
Wheeling-----	90	Very limited Seepage Slope	1.00 0.08	Very limited Piping	1.00	Very limited Depth to water	1.00

# Soil Survey of Jefferson County, Kentucky

Table 16.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WhC: Wheeling-----	90	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
WhD: Wheeling-----	90	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
WhF: Wheeling-----	90	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
WkA: Wheeling-----	90	Very limited Seepage	1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
WkB: Wheeling-----	90	Very limited Seepage Slope	1.00 0.08	Very limited Piping	1.00	Very limited Depth to water	1.00
WkC: Wheeling-----	90	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
WkD: Wheeling-----	90	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
WkF: Wheeling-----	90	Very limited Seepage Slope	1.00 1.00	Very limited Piping	1.00	Very limited Depth to water	1.00
WoA: Woolper-----	80	Somewhat limited Seepage	0.53	Not limited		Very limited Depth to water	1.00
WoB: Woolper-----	80	Somewhat limited Seepage Slope	0.53 0.08	Not limited		Very limited Depth to water	1.00
WoC: Woolper-----	80	Very limited Slope Seepage	1.00 0.53	Not limited		Very limited Depth to water	1.00
ZpA: Zipp-----	90	Not limited		Very limited Depth to saturated zone Ponding Hard to pack	1.00 1.00 0.71	Somewhat limited Slow refill Cutbanks cave	0.96 0.10

Table 17.—Engineering Properties

(Absence of an entry indicates that data were not estimated)

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
AfB: Alford-----	In										Pct	
	0-7	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	7-55	Silty clay loam, silt loam	CL	A-4, A-6	0	0	100	100	90-100	80-100	30-40	10-20
AfC: Alford-----	55-84	Silt loam	CL-ML, CL	A-4	0	0	95-100	92-100	90-100	80-100	20-25	5-10
	0-7	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	7-55	Silty clay loam, silt loam	CL	A-4, A-6	0	0	100	100	90-100	80-100	30-40	10-20
AfD: Alford-----	55-84	Silt loam	CL-ML, CL	A-4	0	0	95-100	92-100	90-100	80-100	20-25	5-10
	0-7	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	7-55	Silty clay loam, silt loam	CL	A-4, A-6	0	0	100	100	90-100	80-100	30-40	10-20
AfF: Alford-----	55-84	Silt loam	CL-ML, CL	A-4	0	0	95-100	92-100	90-100	80-100	20-25	5-10
	0-7	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	7-55	Silty clay loam, silt loam	CL	A-4, A-6	0	0	100	100	90-100	80-100	30-40	10-20
BeB: Beasley-----	55-84	Silt loam	CL, CL-ML	A-4	0	0	95-100	92-100	90-100	80-100	20-25	5-10
	0-7	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	7-55	Silty clay loam, silt loam	CL	A-4, A-6	0	0	100	100	90-100	80-100	30-40	10-20
BeC: Beasley-----	6-48	Silt loam	ML, CL-ML	A-4	0	0-5	93-100	90-100	80-98	75-83	25-35	4-10
	48-58	Silty clay, clay Weathered bedrock	CH, CL	A-7-6	0	0-8	91-100	85-100	74-100	70-95	45-70	20-40
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BeD: Beasley-----	0-6	Silt loam	CL-ML, ML	A-4	0	0-5	93-100	90-100	80-98	75-83	25-35	4-10
	6-48	Silty clay, clay	CL, CH	A-7-6	0	0-8	91-100	85-100	74-100	70-95	45-70	20-40
	48-58	Weathered bedrock			---	---	---	---	---	---	---	---
BeD: Beasley-----	0-6	Silt loam	CL-ML, ML	A-4	0	0-5	93-100	90-100	80-98	75-83	25-35	4-10
	6-48	Silty clay, clay	CH, CL	A-7-6	0	0-8	91-100	85-100	74-100	70-95	45-70	20-40
	48-58	Weathered bedrock			---	---	---	---	---	---	---	---



Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
											Pct		
Bo: Boonewood-----	In												
	0-6	Silt loam	CL, ML	A-4, A-6	0	0-3	93-100	91-100	75-100	62-90	25-35	3-11	
	6-23	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0-5	93-100	91-100	80-100	70-95	25-42	3-20	
	23-30	Gravelly silt loam, silt loam, silty clay loam	CL	A-4, A-6	0	0-7	85-100	85-100	80-100	70-95	25-42	3-20	
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---	
CaB2: Caneyville-----	0-2	Silt loam	ML, CL-ML, CL	A-4, A-6	0	0-3	90-100	88-100	75-98	60-83	20-35	2-12	
	2-30	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0	0-8	90-100	85-100	75-100	65-100	42-75	20-45	
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---	
CaC2: Caneyville-----	0-2	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0-3	90-100	88-100	75-98	60-83	20-35	2-12	
	2-30	Silty clay, clay, silty clay loam	CH, CL	A-7-6	0	0-8	90-100	85-100	75-100	65-100	42-75	20-45	
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---	
CaD2: Caneyville-----	0-2	Silt loam	ML, CL-ML, CL	A-4, A-6	0	0-3	90-100	88-100	75-98	60-83	20-35	2-12	
	2-30	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0	0-8	90-100	85-100	75-100	65-100	42-75	20-45	
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---	
CcF2: Caneyville-----	0-2	Silt loam	ML, CL-ML, CL	A-4, A-6	0	0-3	90-100	88-100	75-98	60-83	20-35	2-12	
	2-30	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0	0-8	90-100	85-100	75-100	65-100	42-75	20-45	
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---	
Rock outcrop.													
CeF: Carpenter-----	0-6	Silt loam	ML, CL, CL-ML	A-4	0	0-8	80-95	80-95	55-85	55-85	5-34	2-10	
	6-38	Channery silty clay loam, silt loam, silty clay loam	CL-ML, CL	A-4, A-6	0	5-8	60-95	60-90	55-88	55-80	25-45	5-20	
	38-45	Channery silty clay loam, very channery silty clay loam, channery silty clay	CL, GC	A-6, A-7-6	0	0-15	65-95	60-95	55-90	45-90	30-60	15-40	
	45-68	Weathered bedrock			---	---	---	---	---	---	---	---	

Soil Survey of Jefferson County, Kentucky

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
Cm. Cemeteries	In				Pct	Pct					Pct	
CnF: Chagrin-----	0-10	Loam	ML, CL, CL-ML	A-4	0	0	95-100	85-100	80-100	50-90	20-35	2-10
	10-39	Silt loam, loam, sandy loam	ML, SM, CL	A-2, A-4, A-6	0	0	90-100	75-100	55-95	30-85	20-40	2-14
	39-90	Stratified gravelly fine sand to silt loam, silt loam, loam, sandy loam	ML, SM	A-2, A-4	0	0	75-100	65-100	40-95	10-87	20-40	2-10
Nelse-----	0-12	Stratified loam to fine sandy loam	SC-SM, SM, CL-ML, ML	A-2-4, A-4	0	0-5	95-100	95-100	65-90	30-65	2-24	2-5
	12-100	Loamy fine sand, fine sandy loam, sandy loam, stratified loam to sandy loam	SC-SM, CL-ML, SM	A-2-4, A-4	0	0-5	95-100	90-100	60-90	20-50	2-19	2-5
Wheeling-----	0-6	Loam	CL, SC, SM, CL-ML, ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GM, GP, GW, SM, GC-GM, CL-ML	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
Co: Combs-----	0-14	Loam	ML, SC-SM, SM, CL-ML	A-2, A-4	0	0	90-100	77-100	65-100	35-80	2-24	2-5
	14-77	Sandy loam, fine sandy loam, silt loam	CL-ML, ML, SM, SC-SM	A-2, A-4	0	0	90-100	75-100	65-100	30-80	2-24	2-5
	77-102	Loam, silt loam, sandy loam	SM, SC-SM, CL-ML, ML	A-2, A-4	0	0	90-100	75-100	65-99	30-80	2-24	2-8
CrA: Crider-----	0-7	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	100	95-100	90-100	85-100	25-35	3-12
	7-24	Silt loam, silty clay loam	CL, CL-ML, ML	A-4, A-6, A-7	0	0	100	95-100	90-100	85-100	25-42	3-20
	24-100	Silty clay, clay, silty clay loam	CH, CL	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
	In												
CrB: Crider-----	0-7	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	100	95-100	90-100	85-100	25-35	3-12	
	7-24	Silt loam, silty clay loam	ML, CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	85-100	25-42	3-20	
	24-100	Silty clay, clay, silty clay loam	CL, CH	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40	
CrC: Crider-----	0-7	Silt loam	CL-ML, ML, CL	A-4, A-6	0	0	100	95-100	90-100	85-100	25-35	3-12	
	7-24	Silt loam, silty clay loam	CL-ML, ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	85-100	25-42	3-20	
	24-100	Silty clay, clay, silty clay loam	CH, CL	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40	
CrD: Crider-----	0-7	Silt loam	CL, ML, CL-ML	A-4, A-6	0	0	100	95-100	90-100	85-100	25-35	3-12	
	7-24	Silt loam, silty clay loam	ML, CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	85-100	25-42	3-20	
	24-100	Silty clay, clay, silty clay loam	CH, CL	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40	
DAM. Dam, large													
Dp. Dumps, ash													
EkA: Elk-----	0-12	Silt loam	CL, ML	A-4	0	0	95-100	95-100	85-100	70-95	25-35	3-10	
	12-36	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	95-100	85-100	70-95	25-40	5-15	
	36-69	Silty clay loam, silt loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	90-100	85-100	75-100	25-40	5-15	
	69-87	Silty clay loam, silt loam, gravelly silty clay loam	CL, CL-ML, ML, SC-SM	A-4, A-6	0	0	75-100	50-100	45-100	40-95	25-40	5-15	
EkB: Elk-----	0-12	Silt loam	ML, CL	A-4	0	0	95-100	95-100	85-100	70-95	25-35	3-10	
	12-36	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	95-100	85-100	70-95	25-40	5-15	
	36-69	Silty clay loam, silt loam	ML, CL-ML, CL	A-4, A-6	0	0	95-100	90-100	85-100	75-100	25-40	5-15	
	69-87	Silty clay loam, silt loam, gravelly silt clay loam	SC-SM, ML, CL-ML, CL	A-4, A-6	0	0	75-100	50-100	45-100	40-95	25-40	5-15	

# Soil Survey of Jefferson County, Kentucky

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
											Pct		
EkC: Elk-----	In											Pct	
	0-12	Silt loam	ML, CL	A-4	0	0	0	95-100	95-100	85-100	70-95	25-35	3-10
	12-36	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	0	95-100	95-100	85-100	70-95	25-40	5-15
	36-69	Silty clay loam, silt loam	ML, CL-ML, CL	A-4, A-6	0	0	0	95-100	90-100	85-100	75-100	25-40	5-15
EkD: Elk-----	69-87	Silty clay loam, silt loam, gravelly silty clay loam	SC-SM, ML, CL, CL-ML	A-4, A-6	0	0	0	75-100	50-100	45-100	40-95	25-40	5-15
	0-12	Silt loam	ML, CL	A-4	0	0	0	95-100	95-100	85-100	70-95	25-35	3-10
	12-36	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	0	95-100	95-100	85-100	70-95	25-40	5-15
	36-69	Silty clay loam, silt loam	ML, CL-ML, CL	A-4, A-6	0	0	0	95-100	90-100	85-100	75-100	25-40	5-15
EoA: Elk-----	69-87	Silty clay loam, silt loam, gravelly silty clay loam	ML, CL, SC-SM, CL-ML	A-4, A-6	0	0	0	75-100	50-100	45-100	40-95	25-40	5-15
	0-12	Silt loam	CL, ML	A-4	0	0	0	95-100	95-100	85-100	70-95	25-35	3-10
	12-36	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6	0	0	0	95-100	95-100	85-100	70-95	25-40	5-15
	36-69	Silty clay loam, silt loam	CL, CL-ML, ML	A-4, A-6	0	0	0	95-100	90-100	85-100	75-100	25-40	5-15
EoB: Elk-----	69-87	Silty clay loam, silt loam, gravelly silty clay loam	CL, CL-ML, ML, SC-SM	A-4, A-6	0	0	0	75-100	50-100	45-100	40-95	25-40	5-15
	0-12	Silt loam	ML, CL	A-4	0	0	0	95-100	95-100	85-100	70-95	25-35	3-10
	12-36	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	0	95-100	95-100	85-100	70-95	25-40	5-15
	36-69	Silty clay loam, silt loam	ML, CL-ML, CL	A-4, A-6	0	0	0	95-100	90-100	85-100	75-100	25-40	5-15
EoB: Elk-----	69-87	Silty clay loam, silt loam, gravelly silty clay loam	SC-SM, ML, CL-ML, CL	A-4, A-6	0	0	0	75-100	50-100	45-100	40-95	25-40	5-15

Soil Survey of Jefferson County, Kentucky

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
											Pct		
EoC: Elk-----	In										Pct		
	0-12	Silt loam	CL, ML	A-4	0	0	95-100	95-100	85-100	70-95	25-35	3-10	
	12-36	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6	0	0	95-100	95-100	85-100	70-95	25-40	5-15	
	36-69	Silty clay loam, silt loam	ML, CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	75-100	25-40	5-15	
FaC: Faywood-----	69-87	Silty clay loam, silt loam, gravelly silty clay loam	CL, SC-SM, ML, CL-ML	A-4, A-6	0	0	75-100	50-100	45-100	40-95	25-40	5-15	
	0-7	Silt loam	ML, CL-ML	A-4	0-3	0-8	100	95-100	90-100	75-100	25-35	4-10	
	7-29	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0-3	0-10	90-100	90-100	85-100	75-100	42-70	20-45	
	29-33	Unweathered bedrock			---	---	---	---	---	---	---	---	
FaD: Faywood-----	0-7	Silt loam	ML, CL-ML	A-4	0-3	0-8	100	95-100	90-100	75-100	25-35	4-10	
	7-29	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0-3	0-10	90-100	90-100	85-100	75-100	42-70	20-45	
	29-33	Unweathered bedrock			---	---	---	---	---	---	---	---	
FeC3: Faywood-----	0-2	Silt loam	ML, CL-ML	A-4	0-3	0-8	100	95-100	90-100	75-100	25-35	4-10	
	2-33	Silty clay, clay, silty clay loam	CH, CL	A-7-6	0-3	0-10	90-100	90-100	85-100	75-100	42-70	20-45	
	33-37	Unweathered bedrock			---	---	---	---	---	---	---	---	
FeD3: Faywood-----	0-2	Silt loam	ML, CL-ML	A-4	0-3	0-8	100	95-100	90-100	75-100	25-35	4-10	
	2-33	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0-3	0-10	90-100	90-100	85-100	75-100	42-70	20-45	
	33-37	Unweathered bedrock			---	---	---	---	---	---	---	---	
FsF: Faywood-----	0-7	Silt loam	CL-ML, ML	A-4	0-3	0-8	100	95-100	90-100	75-100	25-35	4-10	
	7-29	Silty clay, clay, silty clay loam	CH, CL	A-7-6	0-3	0-10	90-100	90-100	85-100	75-100	42-70	20-45	
	29-33	Unweathered bedrock			---	---	---	---	---	---	---	---	
Shrouts-----	0-2	Silt loam	CL-ML, ML	A-4, A-6	0	0	100	90-100	85-100	80-100	24-40	4-12	
	2-20	Clay, silty clay	CH, CL	A-7-6	0	0-3	90-100	90-100	85-100	80-100	45-65	20-40	
	20-35	Clay, silty clay, channery silty clay	CL, CH	A-7-6	0	1-10	85-100	75-100	75-100	65-100	45-70	20-40	
	35-45	Weathered bedrock			---	---	---	---	---	---	---	---	

Soil Survey of Jefferson County, Kentucky

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
FsF: Beasley-----	0-6	Silt loam	CL-ML, ML	A-4	0	0-5	93-100	90-100	80-98	75-83	25-35	4-10
	6-48	Silty clay, clay	CL, CH	A-7-6	0	0-8	91-100	85-100	74-100	70-95	45-70	20-40
	48-58	Weathered bedrock			---	---	---	---	---	---	---	---
GpD: Gilpin-----	0-12	Silt loam	CL-ML, CL	A-4, A-6	0	0-8	80-95	75-90	70-85	65-80	20-40	4-15
	12-23	Loam, silt loam, channery silt loam, channery silty clay loam	SC, GC, CL-ML, CL	A-2, A-4, A-6	0	0-8	50-95	45-90	35-85	30-80	20-40	4-15
	23-31	Channery loam, very channery silt loam, very channery loam	GC, CL, GC-GM	A-2, A-4, A-6	0	8-37	50-95	45-90	35-85	30-80	20-40	4-15
GwF: Gilpin-----	31-35	Unweathered bedrock			---	---	---	---	---	---	---	---
	0-12	Silt loam	CL-ML, CL	A-4, A-6	0	0-8	80-95	75-90	70-85	65-80	20-40	4-15
	12-23	Loam, silt loam, channery silt loam, channery silty clay loam	CL, CL-ML, GC, SC	A-4, A-6, A-2	0	0-8	50-95	45-90	35-85	30-80	20-40	4-15
Weikert-----	23-31	Channery loam, very channery silt loam, very channery loam	GC, GC-GM, CL	A-2, A-4, A-6	0	8-37	50-95	45-90	35-85	30-80	20-40	4-15
	31-35	Unweathered bedrock			---	---	---	---	---	---	---	---
	0-4	Silt loam, channery silt loam	ML	A-4	0	3-8	85-95	85-95	75-95	60-85	30-40	4-10
Ha: Huntington-----	4-18	Very channery loam, very channery silt loam	GC-GM, GM, GP-GM	A-2, A-1-b, A-4	0	15-30	15-60	10-55	5-45	5-40	28-36	3-9
	18-28	Weathered bedrock			---	---	---	---	---	---	---	---
	0-22	Silt loam	CL-ML, CL, ML	A-4, A-6	0	0	95-100	95-100	85-100	60-95	25-40	5-15
	22-59	Silt loam, silty clay loam	ML, CL, CL-ML	A-4, A-6	0	0	95-100	95-100	85-100	60-95	25-40	5-15
	59-94	Silt loam, silty clay loam, fine sandy loam	SM, CL, ML, SC, CL-ML	A-2, A-4	0	0-6	95-100	60-100	50-100	30-95	2-29	NP-10

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
In					Pct	Pct					Pct	
Hf: Huntington-----	0-22	Silt loam	ML, CL-ML, CL	A-4, A-6	0	0	95-100	95-100	85-100	60-95	25-40	5-15
	22-59	Silt loam, silty clay loam	ML, CL-ML, CL	A-4, A-6	0	0	95-100	95-100	85-100	60-95	25-40	5-15
	59-94	Silt loam, silty clay loam, fine sandy loam	CL-ML, SM, SC, ML, CL	A-2, A-4	0	0-6	95-100	60-100	50-100	30-95	2-29	NP-10
LaA: Lawrence-----	0-10	Silt loam	CL	A-4	0	0	100	95-100	90-100	80-100	25-35	2-10
	10-27	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20
	27-44	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20
	44-80	Silty clay, silty clay loam, silt loam	ML, MH, CL-ML, CL	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-100	25-60	5-25
LaB: Lawrence-----	0-10	Silt loam	CL	A-4	0	0	100	95-100	90-100	80-100	25-35	2-10
	10-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20
	27-44	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20
	44-80	Silty clay, silty clay loam, silt loam	CL-ML, CL, MH, ML	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-100	25-60	5-25
LbA: Lawrence-----	0-10	Silt loam	CL	A-4	0	0	100	95-100	90-100	80-100	25-35	2-10
	10-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20
	27-44	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20
	44-80	Silty clay, silty clay loam, silt loam, stratified loam to clay	CL, ML, CL-ML, MH	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-100	25-60	5-25

Table 17.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
LbB: Lawrence-----	0-10	Silt loam	CL	A-4	0	0	100	95-100	90-100	80-100	25-35	2-10
	10-27	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20
	27-44	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20
	44-80	Silty clay, silty clay loam, silt loam, stratified loam to clay	ML, MH, CL, CL-ML	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-100	25-60	5-25
Ld: Lindside-----	0-16	Silt loam	ML, CL-ML, CL	A-4, A-6	0	0	100	95-100	80-100	55-95	20-35	2-15
	16-52	Silty clay loam, silt loam, very fine sandy loam	CL-ML, CL, ML	A-4, A-6	0	0	92-100	92-100	90-100	70-95	25-40	4-18
	52-90	Silty clay loam, loam, gravelly silt loam	SM, SC, ML, CL	A-2, A-4, A-6	0	0	60-100	55-100	45-100	30-95	20-40	4-18
Ln: Lindside-----	0-16	Silt loam	ML, CL-ML, CL	A-4, A-6	0	0	100	95-100	80-100	55-95	20-35	2-15
	16-52	Silty clay loam, silt loam, very fine sandy loam	CL, CL-ML, ML	A-4, A-6	0	0	92-100	92-100	90-100	70-95	25-40	4-18
	52-90	Silty clay loam, loam, gravelly silt loam	SC, ML, CL, SM	A-2, A-4, A-6	0	0	60-100	55-100	45-100	30-95	20-40	4-18
Me: Melvin-----	0-4	Silt loam	ML, CL-ML, CL	A-4	0	0	95-100	90-100	80-100	80-95	25-35	4-10
	4-56	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	80-100	80-98	25-40	5-20
	56-82	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6	0	0	85-100	80-100	70-100	60-98	25-40	5-20
Mf: Melvin-----	0-4	Silt loam	CL, CL-ML, ML	A-4	0	0	95-100	90-100	80-100	80-95	25-35	4-10
	4-56	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	80-100	80-98	25-40	5-20
	56-82	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6	0	0	85-100	80-100	70-100	60-98	25-40	5-20



Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
In					Pct	Pct						Pct	
Ne: Newark-----	0-6	Silt loam	CL-ML, ML, CL A-4		0	0	95-100	90-100	80-100	55-95	2-31	2-10	
	6-41	Silt loam, silty clay loam	CL-ML, ML, CL A-4, A-6, A-7		0	0	95-100	90-100	85-100	70-100	22-42	3-20	
	41-98	Silt loam, silty clay loam	CL-ML, CL, ML A-4, A-6, A-7		0	0	75-100	70-100	65-100	55-100	22-42	3-20	
Nf: Newark-----	0-6	Silt loam	ML, CL-ML, CL A-4		0	0	95-100	90-100	80-100	55-95	2-31	2-10	
	6-41	Silt loam, silty clay loam	CL, CL-ML, ML A-4, A-6, A-7		0	0	95-100	90-100	85-100	70-100	22-42	3-20	
	41-98	Silt loam, silty clay loam	ML, CL-ML, CL A-4, A-6, A-7		0	0	75-100	70-100	65-100	55-100	22-42	3-20	
NnA: Nicholson-----	0-7	Silt loam	ML, CL, CL-ML A-4		0	0	100	100	93-100	86-100	25-35	5-10	
	7-27	Silty clay loam, silt loam	CL-ML, CL A-4, A-6, A-7		0	0	100	100	87-100	83-100	25-45	5-20	
	27-59	Silty clay loam, silt loam	CL, CL-ML A-4, A-6, A-7		0	0	100	100	91-100	86-100	25-45	5-20	
	59-74	Silty clay loam, silt loam, silty clay	CL-ML, CL A-4, A-6, A-7		0	0-10	80-100	70-100	60-100	55-100	25-45	5-20	
	74-87	Silty clay, clay, channery clay	CH, CL A-6, A-7-6		0	0-15	80-100	70-100	60-100	55-100	34-70	16-40	
NnB: Nicholson-----	0-7	Silt loam	CL, CL-ML, ML A-4		0	0	100	100	93-100	86-100	25-35	5-10	
	7-27	Silty clay loam, silt loam	CL, CL-ML A-4, A-6, A-7		0	0	100	100	87-100	83-100	25-45	5-20	
	27-59	Silty clay loam, silt loam	CL, CL-ML A-4, A-6, A-7		0	0	100	100	91-100	86-100	25-45	5-20	
	59-74	Silty clay loam, silt loam, silty clay	CL, CL-ML A-4, A-6, A-7		0	0-10	80-100	70-100	60-100	55-100	25-45	5-20	
	74-87	Silty clay, clay, channery clay	CH, CL A-6, A-7-6		0	0-15	80-100	70-100	60-100	55-100	34-70	16-40	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments			Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
											Pct		
NnC: Nicholson-----	In										Pct		
	0-7	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	93-100	86-100	25-35	5-10	
	7-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	100	87-100	83-100	25-45	5-20	
	27-59	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	100	91-100	86-100	25-45	5-20	
	59-74	Silty clay loam, silt loam, silty clay	CL, CL-ML	A-4, A-6, A-7	0	0-10	80-100	70-100	60-100	55-100	25-45	5-20	
No: Nolin-----	74-87	Silty clay, clay, channery clay	CH, CL	A-6, A-7-6	0	0-15	80-100	70-100	60-100	55-100	34-70	16-40	
	0-10	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	95-100	90-100	80-100	25-40	5-18	
	10-82	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	85-100	75-100	25-46	5-23	
	82-101	Silt loam, silty clay loam, loam, gravelly loam	ML, GM, CL-ML, CL	A-4, A-6	0	0	50-100	50-100	40-95	35-95	2-29	2-15	
OtA: Otwood-----	0-10	Silt loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-35	5-15	
	10-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-40	5-20	
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-20	
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	95-100	90-100	85-100	65-95	35-50	20-30	
	83-91	Stratified sandy loam to loam, stratified fine sandy loam to silty clay loam, stratified silt loam to clay	CL, CL-ML	A-4, A-6	0	0	80-100	75-100	75-98	60-80	25-50	5-25	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
OtB: Otwood-----	In											Pct	
	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-35	5-15	
	10-27	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-40	5-20	
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-20	
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	95-100	90-100	85-100	65-95	35-50	20-30	
OtC: Otwood-----	83-91	Stratified sandy loam to loam, stratified fine sandy loam to silty clay loam, stratified silt loam to clay	CL, CL-ML	A-4, A-6	0	0	80-100	75-100	75-98	60-80	25-50	5-25	
	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-35	5-15	
	10-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-40	5-20	
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-20	
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	95-100	90-100	85-100	65-95	35-50	20-30	
OwA: Otwood-----	83-91	Stratified sandy loam to loam, stratified fine sandy loam to silty clay loam, stratified silt loam to clay	CL, CL-ML	A-4, A-6	0	0	80-100	75-100	75-98	60-80	25-50	5-25	
	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-35	5-15	
	10-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-40	5-20	
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-20	
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	95-100	90-100	85-100	65-95	35-50	20-30	
OwA: Otwood-----	83-91	Stratified sandy loam to loam, stratified fine sandy loam to silty clay loam, stratified silt loam to clay	CL, CL-ML	A-4, A-6	0	0	80-100	75-100	75-98	60-80	25-50	5-25	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments			Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
OwB: Otwood-----	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>		
	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-35	5-15	
	10-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-40	5-20	
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-20	
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	95-100	90-100	85-100	65-95	35-50	20-30	
OwC: Otwood-----	83-91	Stratified sandy loam to loam, stratified fine sandy loam to silty clay loam, stratified silt loam to clay	CL-ML, CL	A-4, A-6	0	0	80-100	75-100	75-98	60-80	25-50	5-25	
	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-35	5-15	
	10-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-40	5-20	
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-20	
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	95-100	90-100	85-100	65-95	35-50	20-30	
Pa: Patton-----	83-91	Stratified sandy loam to loam, stratified fine sandy loam to silty clay loam, stratified silt loam to clay	CL, CL-ML	A-4, A-6	0	0	80-100	75-100	75-98	60-80	25-50	5-25	
	0-11	Silt loam	CL	A-6	0	0	100	100	95-100	75-95	25-35	10-15	
	11-48	Silty clay loam	MH, ML, CH, CL	A-7-6	0	0	100	100	95-100	80-100	40-55	15-25	
	48-85	Stratified silt loam to silty clay loam, silt loam, silty clay loam	CL	A-7-6	0	0	100	100	95-100	75-96	25-55	10-25	
	Pt. Pits, quarries												

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
	<u>In</u>				<u>Pct</u>	<u>Pct</u>						<u>Pct</u>	
RoA: Robertsville----	0-10	Silt loam	CL	A-4	0	0	95-100	95-100	85-100	75-100	25-35	2-10	
	10-16	Silt loam, silty clay loam	ML, CL	A-4, A-6, A-7	0	0	95-100	95-100	90-100	80-100	25-45	3-20	
	16-74	Silty clay loam, silt loam	ML, CL	A-4, A-6, A-7	0	0	95-100	95-100	90-100	80-100	25-45	3-20	
	74-90	Silty clay loam, silty clay, silt loam	CH, CL, CL-ML	A-4, A-6, A-7	0	0	85-100	69-100	54-100	48-100	25-60	5-35	
RpA: Robertsville----	0-10	Silt loam	CL	A-4	0	0	95-100	95-100	85-100	75-100	25-35	2-10	
	10-16	Silt loam, silty clay loam	ML, CL	A-4, A-6, A-7	0	0	95-100	95-100	90-100	80-100	25-45	3-20	
	16-74	Silty clay loam, silt loam	CL, ML	A-4, A-6, A-7	0	0	95-100	95-100	90-100	80-100	25-45	3-20	
	74-90	Silty clay loam, silty clay, silt loam, stratified loam to clay	CL, CL-ML, CH	A-4, A-6, A-7	0	0	85-100	69-100	54-100	48-100	25-60	5-35	
SaB: Sandview-----	0-10	Silt loam	ML, CL-ML, CL	A-4	0	0	100	95-100	90-100	80-95	25-35	5-10	
	10-41	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-95	25-45	5-20	
	41-82	Silty clay, clay	CH, CL	A-7-6	0	0-3	90-100	90-100	85-100	75-100	45-75	20-45	
SaC: Sandview-----	0-10	Silt loam	ML, CL-ML, CL	A-4	0	0	100	95-100	90-100	80-95	25-35	5-10	
	10-41	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	90-100	80-95	25-45	5-20	
	41-82	Silty clay, clay	CH, CL	A-7-6	0	0-3	90-100	90-100	85-100	75-100	45-75	20-45	
ScA: Sciotoville-----	0-10	Silt loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10	
	10-18	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	65-96	20-35	4-15	
	18-77	Silty clay loam, loam, silt loam	CL	A-6, A-4	0	0-2	95-100	90-100	85-100	65-96	25-40	4-18	
	77-100	Loam, silty clay loam, silt loam, sandy loam	CL	A-6, A-4	0	0-3	75-100	75-100	65-100	45-75	5-35	2-15	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments			Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>		
ScB: Sciotoville-----	0-10	Silt loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10	
	10-18	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	85-100	65-96	20-35	4-15	
	18-77	Silty clay loam, loam, silt loam	CL	A-6, A-4	0	0-2	95-100	90-100	85-100	65-96	25-40	4-18	
	77-100	Loam, silty clay loam, silt loam, sandy loam	CL	A-6, A-4	0	0-3	75-100	75-100	65-100	45-75	5-35	2-15	
ScC: Sciotoville-----	0-10	Silt loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10	
	10-18	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	85-100	65-96	20-35	4-15	
	18-77	Silty clay loam, loam, silt loam	CL	A-6, A-4	0	0-2	95-100	90-100	85-100	65-96	25-40	4-18	
	77-100	Loam, silty clay loam, silt loam, sandy loam	CL	A-6, A-4	0	0-3	75-100	75-100	65-100	45-75	5-35	2-15	
SdA: Sciotoville-----	0-10	Silt loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10	
	10-18	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	65-96	20-35	4-15	
	18-77	Silty clay loam, loam, silt loam	CL	A-6, A-4	0	0-2	95-100	90-100	85-100	65-96	25-40	4-18	
	77-100	Loam, silty clay loam, silt loam, sandy loam	CL	A-6, A-4	0	0-3	75-100	75-100	65-100	45-75	5-35	2-15	
SdB: Sciotoville-----	0-10	Silt loam	CL-ML, CL	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10	
	10-18	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	85-100	65-96	20-35	4-15	
	18-77	Silty clay loam, loam, silt loam	CL	A-6, A-4	0	0-2	95-100	90-100	85-100	65-96	25-40	4-18	
	77-100	Loam, silty clay loam, silt loam, sandy loam	CL	A-6, A-4	0	0-3	75-100	75-100	65-100	45-75	5-35	2-15	
ShC3: Shrouts-----	0-2	Silt loam	ML, CL-ML	A-4, A-6	0	0	100	90-100	85-100	80-100	24-40	4-12	
	2-20	Clay, silty clay	CL, CH	A-7-6	0	0-3	90-100	90-100	85-100	80-100	45-65	20-40	
	20-35	Clay, silty clay, channery silty clay	CH, CL	A-7-6	0	1-10	85-100	75-100	75-100	65-100	45-70	20-40	
	35-45	Weathered bedrock			---	---	---	---	---	---	---	---	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
ShD3: Shrouts-----	In				Pct	Pct					Pct	
	0-2	Silt loam	CL-ML, ML	A-4, A-6	0	0	100	90-100	85-100	80-100	24-40	4-12
	2-20	Clay, silty clay	CH, CL	A-7-6	0	0-3	90-100	90-100	85-100	80-100	45-65	20-40
	20-35	Clay, silty clay, channery silty clay	CH, CL	A-7-6	0	1-10	85-100	75-100	75-100	65-100	45-70	20-40
	35-45	Weathered bedrock			---	---	---	---	---	---	---	---
TjB: Tilsit-----	0-5	Silt loam	CL, CL-ML	A-6, A-4	0	0	90-100	85-100	75-100	60-100	20-35	4-15
	5-32	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6	0	0	90-100	85-100	75-100	65-100	25-40	5-20
	32-60	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6, A-7	0	0	90-100	85-100	75-100	65-100	25-45	5-25
	60-85	Silt loam, channery silt loam, channery silty clay loam, channery silty clay	CL, CH, CL-ML	A-4, A-6, A-7	0	8-15	70-100	65-85	60-85	55-80	25-60	5-35
TjC: Tilsit-----	0-5	Silt loam	CL-ML, CL	A-6, A-4	0	0	90-100	85-100	75-100	60-100	20-35	4-15
	5-32	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6	0	0	90-100	85-100	75-100	65-100	25-40	5-20
	32-60	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6, A-7	0	0	90-100	85-100	75-100	65-100	25-45	5-25
	60-85	Silt loam, channery silt loam, channery silty clay loam, channery silty clay	CL-ML, CL, CH	A-4, A-6, A-7	0	8-15	70-100	65-85	60-85	55-80	25-60	5-35
TjD: Tilsit-----	0-5	Silt loam	CL-ML, CL	A-6, A-4	0	0	90-100	85-100	75-100	60-100	20-35	4-15
	5-32	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0	90-100	85-100	75-100	65-100	25-40	5-20
	32-60	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6, A-7	0	0	90-100	85-100	75-100	65-100	25-45	5-25
	60-85	Silt loam, channery silt loam, channery silty clay loam, channery silty clay	CH, CL, CL-ML	A-4, A-6, A-7	0	8-15	70-100	65-85	60-85	55-80	25-60	5-35

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Ua. Urban land												
UabC: Urban land.												
Haplic Udarents-	0-30	Gravelly silt loam, silt loam, silty clay loam	CL	A-4, A-6	0	0-7	85-100	85-100	80-100	70-95	25-42	3-20
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
Boonewood-----	0-6	Silt loam	ML, CL	A-4, A-6	0	0-3	93-100	91-100	75-100	62-90	25-35	3-11
	6-23	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0-5	93-100	91-100	80-100	70-95	25-42	3-20
	23-30	Gravelly silt loam, silt loam, silty clay loam	CL	A-4, A-6	0	0-7	85-100	85-100	80-100	70-95	25-42	3-20
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
UacB: Urban land.												
Haplic Udarents-	0-77	Sandy loam, fine sandy loam, silt loam	SC-SM, ML, CL-ML, SM	A-2, A-4	0	0	90-100	75-100	65-100	30-80	2-24	2-5
	77-102	Loam, silt loam, sandy loam	SM, CL-ML, ML, SC-SM	A-2, A-4	0	0	90-100	75-100	65-99	30-80	2-24	2-8
Combs-----	0-14	Loam	ML, CL-ML, SC-SM, SM	A-2, A-4	0	0	90-100	77-100	65-100	35-80	2-24	2-5
	14-77	Sandy loam, fine sandy loam, silt loam	SM, SC-SM, CL-ML, ML	A-2, A-4	0	0	90-100	75-100	65-100	30-80	2-24	2-5
	77-102	Loam, silt loam, sandy loam	ML, SC-SM, CL-ML, SM	A-2, A-4	0	0	90-100	75-100	65-99	30-80	2-24	2-8
UadB: Urban land.												
Haplic Udarents-	0-56	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	80-100	80-98	25-40	5-20
	56-82	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6	0	0	85-100	80-100	70-100	60-98	25-40	5-20



Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
UadB: Melvin-----	In				Pct	Pct						Pct	
	0-4	Silt loam	CL-ML, ML, CL	A-4	0	0	95-100	90-100	80-100	80-95	25-35	4-10	
	4-56	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6	0	0	95-100	90-100	80-100	80-98	25-40	5-20	
	56-82	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6	0	0	85-100	80-100	70-100	60-98	25-40	5-20	
UaeB: Urban land.													
	0-41	Silt loam, silty clay loam	ML, CL-ML, CL	A-4, A-6, A-7	0	0	95-100	90-100	85-100	70-100	22-42	3-20	
	41-98	Silt loam, silty clay loam	ML, CL-ML, CL	A-7, A-4, A-6	0	0	75-100	70-100	65-100	55-100	22-42	3-20	
Newark-----	0-6	Silt loam	CL, CL-ML, ML	A-4	0	0	95-100	90-100	80-100	55-95	2-31	2-10	
	6-41	Silt loam, silty clay loam	CL, ML, CL-ML	A-4, A-6, A-7	0	0	95-100	90-100	85-100	70-100	22-42	3-20	
	41-98	Silt loam, silty clay loam	ML, CL-ML, CL	A-4, A-6, A-7	0	0	75-100	70-100	65-100	55-100	22-42	3-20	
UafC: Urban land.													
	0-55	Clay, silty clay	CL, CH	A-7-6	0	0	100	100	95-100	90-96	45-60	25-35	
	55-85	Clay, silty clay	CH, CL	A-7-6	0	0	100	100	90-100	75-98	45-60	25-35	
Zipp-----	0-11	Silty clay	CH, CL	A-7-6	0	0	100	100	95-100	90-95	45-55	20-30	
	11-55	Clay, silty clay	CH, CL	A-7-6	0	0	100	100	95-100	90-96	45-60	25-35	
	55-85	Clay, silty clay	CL, CH	A-7-6	0	0	100	100	90-100	75-98	45-60	25-35	
UagB: Urban land.													
	0-50	Gravelly silt loam, silt loam, silty clay loam	CL	A-4, A-6	0	0-7	85-100	85-100	80-100	70-95	25-42	3-20	
	50-54	Unweathered bedrock			---	---	---	---	---	---	---	---	
UahC: Urban land- Udorthents													
UaiC: Urban land- Udorthents													

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments			Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
UajF. Urban land- Udorthents	In												
UakF. Urban land- Udorthents													
UamC: Urban land.													
Ultic Udarents--	0-32	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0	90-100	85-100	75-100	65-100	25-40	5-20	
	32-60	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6, A-7	0	0	90-100	85-100	75-100	65-100	25-45	5-25	
	60-85	Silt loam, channery silt loam, channery silty clay loam, channery silty clay	CH, CL, CL-ML	A-4, A-6, A-7	0	8-15	70-100	65-85	60-83	55-80	25-60	5-35	
Tilsit-----	0-5	Silt loam	CL-ML, CL	A-6, A-4	0	0	90-100	85-100	75-100	60-100	20-35	4-15	
	5-32	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6	0	0	90-100	85-100	75-100	65-100	25-40	5-20	
	32-60	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6, A-7	0	0	90-100	85-100	75-100	65-100	25-45	5-25	
	60-85	Silt loam, channery silt loam, channery silty clay loam, channery silty clay	CH, CL, CL-ML	A-4, A-6, A-7	0	8-15	70-100	65-85	60-85	55-80	25-60	5-35	
Ubc: Urban land.													
Alfic Udarents--	0-49	Clay loam, loam, silt loam	ML, SM, SC, CL	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20	
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	CL-ML, GM, GP, GW, SM, GC-GM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>	
UbD: Urban land.												
Alfic Udarents--	0-49	Clay loam, loam, silt loam	SM, SC, ML, CL	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	SM, GM, GW, GC-GM, CL-ML, GP	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
UcC: Urban land.												
Alfic Udarents--	0-49	Clay loam, loam, silt loam	SM, SC, ML, CL	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-65	Sandy loam, stratified sandy loam, stratified fine sandy loam	GP, GM, GW, SM, GC-GM, CL-ML	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
	65-69	Unweathered bedrock			---	---	---	---	---	---	---	---
UcF: Urban land.												
Alfic Udarents--	0-49	Clay loam, loam, silt loam	SC, SM, CL, ML	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-65	Sandy loam, stratified sandy loam, stratified fine sandy loam	GM, CL-ML, GC-GM, GP, SM, GW	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
	65-69	Unweathered bedrock			---	---	---	---	---	---	---	---
UdC: Urban land.												
Alfic Udarents--	0-49	Clay loam, loam, silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GC-GM, CL-ML, SM, GM, GW, GP	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
UeC: Urban land.	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>		
	0-20	Silt loam, silty clay loam	CL	A-4, A-6	0	0	100	100	90-100	70-96	25-35	8-15	
	20-41	Silt loam, silty clay loam, clay loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-96	25-42	8-20	
	41-52	Silty clay loam, silt loam, clay loam, loam	CL	A-6, A-7-6	0	0	100	100	90-100	80-96	30-45	15-25	
UfC: Urban land.	52-82	Stratified loam to silty clay loam, stratified sandy loam to silt loam, stratified silt loam to clay loam	CL, ML	A-4, A-6, A-7-6	0	0	100	100	90-100	20-100	25-45	2-20	
	0-20	Silt loam, silty clay loam	CL	A-4, A-6	0	0	100	100	90-100	70-96	25-35	8-15	
	20-41	Silt loam, silty clay loam, clay loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-96	25-42	8-20	
	41-52	Silty clay loam, silt loam, clay loam, loam	CL	A-6, A-7-6	0	0	100	100	90-100	80-96	30-45	15-25	
	52-82	Stratified loam to silty clay loam, stratified sandy loam to silt loam, stratified silt loam to clay loam	CL, ML	A-4, A-6, A-7-6	0	0	100	100	90-100	20-100	25-45	2-20	
UgC: Urban land.													
	0-27	Silt loam, silty clay loam, loam	CL-ML, CL	A-4, A-6	0	0	90-100	85-100	75-100	65-100	25-40	5-20	
	27-50	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6, A-7	0	0	90-100	85-100	75-100	65-100	25-45	5-25	
	50-58 58-68	Silty clay, clay Weathered bedrock	CH, CL	A-7-6	0 ---	0-10 ---	91-100 ---	85-100 ---	74-100 ---	70-95 ---	45-70 ---	20-40 ---	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>		
UhC: Urban land.													
Alfic Udarents--	0-27	Silty clay loam, silt loam	CL-ML, CL	A-7, A-4, A-6	0	0	100	100	87-100	83-100	25-45	5-20	
	27-59	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	100	91-100	86-100	25-45	5-20	
	59-74	Silty clay loam, silt loam, silty clay	CL-ML, CL	A-4, A-6, A-7	0	0-2	80-100	70-100	60-100	55-100	25-45	5-20	
	74-87	Silty clay, clay, channery clay	CL, CH	A-6, A-7-6	0	0-15	80-100	70-100	60-100	55-100	34-70	16-40	
	87-91	Unweathered bedrock			---	---	---	---	---	---	---	---	
UiC: Urban land.													
Alfic Udarents--	0-48	Silty clay, clay	CH, CL	A-7-6	0	0-9	91-100	85-100	74-100	70-95	45-70	20-40	
	48-58	Weathered bedrock			---	---	---	---	---	---	---	---	
UiD: Urban land.													
Alfic Udarents--	0-48	Silty clay, clay	CL, CH	A-7-6	0	0-9	91-100	85-100	74-100	70-95	45-70	20-40	
	48-58	Weathered bedrock			---	---	---	---	---	---	---	---	
UiF: Urban land.													
Ultic Udarents--	0-36	Silty clay loam, silt loam	CL	A-4, A-6	0	0	100	100	90-100	80-100	30-40	10-20	
	36-51	Silt loam	CL, CL-ML	A-4	0	0	95-100	92-100	90-100	80-100	20-25	5-10	
	51-70	Channery silty clay loam, very channery silty clay loam, channery silty clay	CL, GC	A-6, A-7-6	0	0-15	65-95	60-95	55-90	45-90	30-60	15-40	
	70-80	Weathered bedrock			---	---	---	---	---	---	---	---	

Soil Survey of Jefferson County, Kentucky

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>	
UjC: Urban land.												
Alfic Udarents--	0-24	Silt loam, silty clay loam	CL-ML, ML, CL	A-7, A-6, A-4	0	0	100	95-100	90-100	85-100	25-42	3-20
	24-50	Silty clay, clay, silty clay loam	CL, CH	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40
	50-70	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0	0-15	90-100	85-100	75-100	65-100	42-75	20-45
	70-74	Unweathered bedrock			---	---	---	---	---	---	---	---
UjD: Urban land.												
Alfic Udarents--	0-24	Silt loam, silty clay loam	CL, CL-ML, ML	A-7, A-6, A-4	0	0	100	95-100	90-100	85-100	25-42	3-20
	24-50	Silty clay, clay, silty clay loam	CL, CH	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40
	50-70	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0	0-15	90-100	85-100	75-100	65-100	42-75	20-45
	70-74	Unweathered bedrock			---	---	---	---	---	---	---	---
UjF: Urban land.												
Alfic Udarents--	0-24	Silt loam, silty clay loam	ML, CL, CL-ML	A-7, A-6, A-4	0	0	100	95-100	90-100	85-100	25-42	3-20
	24-50	Silty clay, clay, silty clay loam	CL, CH	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40
	50-70	Silty clay, clay, silty clay loam	CH, CL	A-7-6	0	0-15	90-100	85-100	75-100	65-100	42-75	20-45
	70-74	Unweathered bedrock			---	---	---	---	---	---	---	---
UkC: Urban land.												
Alfic Udarents--	0-48	Silty clay, clay	CL, CH	A-7-6	0	0-8	91-100	85-100	74-100	70-95	45-70	20-40
	48-58	Weathered bedrock			---	---	---	---	---	---	---	---
Beasley-----	0-6	Silt loam	ML, CL-ML	A-4	0	0-5	93-100	90-100	80-98	75-83	25-35	4-10
	6-48	Silty clay, clay	CH, CL	A-7-6	0	0-8	91-100	85-100	74-100	70-95	45-70	20-40
	48-58	Weathered bedrock			---	---	---	---	---	---	---	---

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches Pct	3-10 inches Pct	4	10	40	200			
ULC: Urban land.													
Alfic Udarents--	0-30	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0	0-15	90-100	85-100	75-100	65-100	42-75	20-45	
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---	
Caneyville-----	0-2	Silt loam	CL-ML, CL, ML	A-4, A-6	0	0-3	90-100	88-100	75-98	60-83	20-35	2-12	
	2-30	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0	0-8	90-100	85-100	75-100	65-100	42-75	20-45	
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---	
ULD: Urban land.													
Alfic Udarents--	0-30	Silty clay, clay, silty clay loam	CH, CL	A-7-6	0	0-15	90-100	85-100	75-100	65-100	42-75	20-45	
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---	
Caneyville-----	0-2	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0-3	90-100	88-100	75-98	60-83	20-35	2-12	
	2-30	Silty clay, clay, silty clay loam	CL, CH	A-7-6	0	0-8	90-100	85-100	75-100	65-100	42-75	20-45	
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---	
UmC: Urban land.													
Alfic Udarents--	0-24	Silt loam, silty clay	CL, CL-ML, ML	A-4, A-6, A-7	0	0	100	95-100	90-100	85-100	25-42	3-20	
	24-100	Silty clay, clay, silty clay loam	CH, CL	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40	
Crider-----	0-7	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	100	95-100	90-100	85-100	25-35	3-12	
	7-24	Silt loam, silty clay loam	CL-ML, CL, ML	A-4, A-6, A-7	0	0	100	95-100	90-100	85-100	25-42	3-20	
	24-100	Silty clay, clay, silty clay loam	CH, CL	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40	
UmD: Urban land.													
Alfic Udarents--	0-24	Silt loam, silty clay loam	ML, CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	85-100	25-42	3-20	
	24-100	Silty clay, clay, silty clay loam	CL, CH	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
Umd: Crider-----	In												
	0-7	Silt loam	CL, ML, CL-ML	A-4, A-6	0	0	100	95-100	90-100	85-100	25-35	3-12	
	7-24	Silt loam, silty clay loam	ML, CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	85-100	25-42	3-20	
	24-100	Silty clay, clay, silty clay loam	CL, CH	A-6, A-7-6	0	0-5	85-100	75-100	70-100	60-100	35-65	15-40	
UnC: Urban land.													
	0-36	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6	0	0	95-100	95-100	85-100	70-95	25-40	5-15	
	36-69	Silty clay loam, silt loam	ML, CL-ML, CL	A-4, A-6	0	0	95-100	90-100	85-100	75-100	25-40	5-15	
	69-87	Silty clay loam, silt loam, gravelly silty clay loam	CL, CL-ML, ML, SC-SM	A-4, A-6	0	0	75-100	50-100	45-100	40-95	25-40	5-15	
Elk-----	0-12	Silt loam	CL, ML	A-4	0	0	95-100	95-100	85-100	70-95	25-35	3-10	
	12-36	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6	0	0	95-100	95-100	85-100	70-95	25-40	5-15	
	36-69	Silty clay loam, silt loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	90-100	85-100	75-100	25-40	5-15	
	69-87	Silty clay loam, silt loam, gravelly silty clay loam	SC-SM, ML, CL-ML, CL	A-4, A-6	0	0	75-100	50-100	45-100	40-95	25-40	5-15	
UoC: Urban land.													
	0-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20	
	27-46	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20	
	46-80	Silty clay, silty clay loam, silt loam	ML, MH, CL-ML, CL	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-100	25-60	5-25	
Lawrence-----	0-10	Silt loam	CL	A-4	0	0	100	95-100	90-100	80-100	25-35	2-10	
	10-27	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20	
	27-44	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20	
	44-80	Silty clay, silty clay loam, silt loam	ML, CL-ML, CL, MH	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-100	25-60	5-25	



# Soil Survey of Jefferson County, Kentucky

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
UpC: Urban land.	In				Pct	Pct					Pct		
Alfic Udarents--	0-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20	
	27-46	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20	
	46-80	Silty clay, silty clay loam, silt loam, stratified loam to clay	CL, ML, MH, CL-ML	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-100	25-60	5-25	
Lawrence-----	0-10	Silt loam	CL	A-4	0	0	100	95-100	90-100	80-100	25-35	2-10	
	10-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20	
	27-44	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	95-100	90-100	80-100	25-42	5-20	
	44-80	Silty clay, silty clay loam, silt loam, stratified loam to clay	CL-ML, MH, ML, CL	A-4, A-6, A-7-6	0	0	90-100	85-100	80-100	75-100	25-60	5-25	
UqC: Urban land.													
Alfic Udarents--	0-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	100	87-100	83-100	25-45	5-20	
	27-59	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6, A-7	0	0	100	100	91-100	86-100	25-45	5-20	
	59-74	Silty clay loam, silt loam, silty clay	CL, CL-ML	A-4, A-6, A-7	0	0-2	80-100	70-100	60-100	55-100	25-45	5-20	
	74-87	Silty clay, clay, channery clay	CH, CL	A-6, A-7-6	0	0-15	80-100	70-100	60-100	55-100	34-70	16-40	
Nicholson-----	0-7	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	93-100	86-100	25-35	5-10	
	7-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	100	87-100	83-100	25-45	5-20	
	27-59	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	100	91-100	86-100	25-45	5-20	
	59-74	Silty clay loam, silt loam, silty clay	CL, CL-ML	A-4, A-6, A-7	0	0-2	80-100	70-100	60-100	55-100	25-45	5-20	
74-87		Silty clay, clay, channery clay	CH, CL	A-6, A-7-6	0	0-15	80-100	70-100	60-100	55-100	34-70	16-40	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
UrC: Urban land.  Alfic Udarents--	In											
	0-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-40	5-20
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-20
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	95-100	90-100	85-100	65-95	35-50	20-30
	83-91	Stratified sandy loam to loam, stratified fine sandy loam to silty clay loam, stratified silt loam to clay	CL-ML, CL	A-4, A-6	0	0	80-100	75-100	75-98	60-80	25-50	5-25
Otwood-----												
	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-35	5-15
	10-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-40	5-20
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-20
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	95-100	90-100	85-100	65-95	35-50	20-30
	83-91	Stratified sandy loam to loam, sandy loam to silty clay loam, stratified silt loam to clay	CL-ML, CL	A-4, A-6	0	0	80-100	75-100	75-98	60-80	25-50	5-25
UsC: Urban land.  Alfic Udarents--												
	0-27	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-95	25-40	5-20
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-20
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	95-100	90-100	85-100	65-95	35-50	20-30
	83-91	Stratified sandy loam to loam, stratified fine sandy loam to silty clay loam, stratified silt loam to clay	CL, CL-ML	A-4, A-6	0	0	80-100	75-100	75-98	60-80	25-50	5-25

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
UsC: Otwood-----	In												
	0-10	Silt loam	CL-ML, CL	A-4, A-6	0	0	0	95-100	90-100	85-100	70-95	25-35	5-15
	10-27	Silty clay loam, silt loam	CL-ML, CL	A-4, A-6	0	0	0	95-100	90-100	85-100	70-95	25-40	5-20
	27-46	Silty clay loam, silt loam	CL	A-6	0	0	0	95-100	95-100	85-100	65-90	25-40	5-20
	46-83	Silty clay loam, silt loam, loam	CL	A-6, A-7	0	0	0	95-100	90-100	85-100	65-95	35-50	20-30
UtC: Urban land.	83-91	Stratified sandy loam to loam, stratified fine sandy loam to silty clay loam, stratified silt loam to clay	CL-ML, CL	A-4, A-6	0	0	0	80-100	75-100	75-98	60-80	25-50	5-25
Robertsville----	0-16	Silt loam, silty clay loam	ML, CL	A-4, A-6, A-7	0	0	0	95-100	95-100	90-100	80-100	25-45	3-20
	16-74	Silty clay loam, silt loam	ML, CL	A-4, A-6, A-7	0	0	0	95-100	95-100	90-100	80-100	25-45	3-20
	74-90	Silty clay loam, silty clay, silt loam, sandy loam	CL, CL-ML, CH	A-4, A-6, A-7	0	0	0	80-100	75-100	70-100	60-100	25-60	5-35
	0-10	Silt loam	CL	A-4	0	0	0	95-100	95-100	85-100	75-100	25-35	2-10
	10-16	Silt loam, silty clay loam	CL, ML	A-4, A-6, A-7	0	0	0	95-100	95-100	90-100	80-100	25-45	3-20
UuC: Urban land.	16-74	Silty clay loam, silt loam	ML, CL	A-4, A-6, A-7	0	0	0	95-100	95-100	90-100	80-100	25-45	3-20
	74-90	Silty clay loam, silty clay, silt loam	CH, CL, CL-ML	A-4, A-6, A-7	0	0	0	85-100	69-100	54-100	48-100	25-60	5-35
Alfic Udarents--	0-41	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6, A-7	0	0	0	100	95-100	90-100	80-95	25-45	5-20
	41-82	Silty clay, clay	CL, CH	A-7-6	0	0-3	0	90-100	90-100	85-100	75-100	45-75	20-45
	0-10	Silt loam	CL, CL-ML, ML	A-4	0	0	0	100	95-100	90-100	80-95	25-35	5-10
Sandview-----	10-41	Silt loam, silty clay loam	CL-ML, CL	A-4, A-6, A-7	0	0	0	100	95-100	90-100	80-95	25-45	5-20
	41-82	Silty clay, clay	CH, CL	A-7-6	0	0-3	0	90-100	90-100	85-100	75-100	45-75	20-45

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Table 17.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
UvC: Urban land.  Alfic Udarents--	In				Pct	Pct					Pct		
	0-18	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	65-96	20-35	4-15	
	18-77	Silty clay loam, loam, silt loam	CL	A-6, A-4	0	0-2	95-100	90-100	85-100	65-96	25-40	4-18	
	77-100	Loam, silty clay loam, silt loam, sandy loam	CL	A-6, A-4	0	0-3	75-100	75-100	65-100	45-75	5-35	2-15	
Sciotoville----	0-10	Silt loam	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10	
	10-18	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	65-96	20-35	4-15	
	18-77	Silty clay loam, loam, silt loam	CL	A-6, A-4	0	0-2	95-100	90-100	85-100	65-96	25-40	4-18	
	77-100	Loam, silty clay loam, silt loam, sandy loam	CL	A-6, A-4	0	0-3	75-100	75-100	65-100	45-75	5-35	2-15	
UwC: Urban land.  Alfic Udarents--	0-20	Clay, silty clay	CL, CH	A-7-6	0	0-3	90-100	90-100	85-100	80-100	45-65	20-40	
	20-35	Clay, silty clay, channery silty clay	CH, CL	A-7-6	0	1-10	85-100	75-100	75-100	65-100	45-70	20-40	
	35-45	Weathered bedrock			---	---	---	---	---	---	---	---	
	0-2	Silt loam	ML, CL-ML	A-4, A-6	0	0	100	90-100	85-100	80-100	24-40	4-12	
	2-20	Clay, silty clay	CL, CH	A-7-6	0	0-3	90-100	90-100	85-100	80-100	45-65	20-40	
Shrouts-----	20-35	Clay, silty clay, channery silty clay	CH, CL	A-7-6	0	1-10	85-100	75-100	75-100	65-100	45-70	20-40	
	35-45	Weathered bedrock			---	---	---	---	---	---	---	---	
UwD: Urban land.  Alfic Udarents--	0-20	Clay, silty clay	CH, CL	A-7-6	0	0-3	90-100	90-100	85-100	80-100	45-65	20-40	
	20-35	Clay, silty clay, channery silty clay	CL, CH	A-7-6	0	1-10	85-100	75-100	75-100	65-100	45-70	20-40	
	35-45	Weathered bedrock			---	---	---	---	---	---	---	---	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
											Pct		
In												Pct	
UwD: Shrouts-----													
	0-2	Silt loam	CL-ML, ML	A-4, A-6	0	0	100	90-100	85-100	80-100	24-40		4-12
	2-20	Clay, silty clay	CH, CL	A-7-6	0	0-3	90-100	90-100	85-100	80-100	45-65		20-40
	20-35	Clay, silty clay, channery silty clay	CH, CL	A-7-6	0	1-10	85-100	75-100	75-100	65-100	45-70		20-40
	35-45	Weathered bedrock			---	---	---	---	---	---	---		---
UxC: Urban land.													
	0-20	Silt loam, silty clay loam	CL	A-4, A-6	0	0	100	100	90-100	70-96	25-35		8-15
	20-41	Silt loam, silty clay loam, clay loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-96	25-42		8-20
	41-52	Silty clay loam, silt loam, clay loam, loam	CL	A-6, A-7-6	0	0	100	100	90-100	80-96	30-45		15-25
	52-82	Stratified loam to silty clay loam, stratified sandy loam to silt loam, stratified silt loam to clay loam	CL, ML	A-4, A-6, A-7-6	0	0	100	100	90-100	20-100	25-45		2-20
Weinbach-----													
	0-12	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	60-90	20-40		5-15
	12-20	Silt loam, silty clay loam	CL	A-4, A-6	0	0	100	100	90-100	70-96	25-35		8-15
	20-41	Silt loam, silty clay loam, clay loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-96	25-42		8-20
	41-52	Silty clay loam, silt loam, clay loam, loam	CL	A-6, A-7-6	0	0	100	100	90-100	80-96	30-45		15-25
	52-82	Stratified loam to silty clay loam, stratified sandy loam to silt loam, stratified silt loam to clay loam	CL, ML	A-4, A-6, A-7-6	0	0	100	100	90-100	20-100	25-45		2-20

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
UyC: Urban land.												
Alfic Udarents--	0-49	Clay loam, loam, silt loam	ML, SM, CL, SC	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GP, GM, GW, SM, GC-GM, CL-ML	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
Wheeling-----												
	0-6	Loam	CL, ML, SC, SM, CL-ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	CL, SM, SC, ML	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GP, GC-GM, CL-ML, SM, GW, GM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
UyD: Urban land.												
Alfic Udarents--	0-49	Clay loam, loam, silt loam	SM, SC, ML, CL	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GP, GW, SM, CL-ML, GC-GM, GM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
Wheeling-----												
	0-6	Loam	CL-ML, SC, CL, SM, ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	SM, SC, CL, ML	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	SM, GC-GM, CL-ML, GP, GW, GM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
UzC: Urban land.												
Alfic Udarents--	0-49	Clay loam, loam, silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GM, SM, GC-GM, CL-ML, GP, GW	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--					Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200			
	<u>In</u>				<u>Pct</u>	<u>Pct</u>						<u>Pct</u>	
UzC: Wheeling-----	0-6	Loam	SC, SM, CL, ML, CL-ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10	
	6-49	Clay loam, loam, silt loam	CL, SM, SC, ML	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20	
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GM, GP, GW, SM, GC-GM, CL-ML	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10	
W. Water													
WeA: Weinbach-----	0-12 12-20	Silt loam Silt loam, silty clay loam	CL, CL-ML CL	A-4, A-6 A-4, A-6	0 0	0 0	100 100	100 100	85-100 90-100	60-90 70-96	20-40 25-35	5-15 8-15	
	20-41	Silt loam, silty clay loam, clay loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-96	25-42	8-20	
	41-52	Silty clay loam, silt loam, clay loam, loam	CL	A-6, A-7-6	0	0	100	100	90-100	80-96	30-45	15-25	
	52-82	Stratified loam to silty clay loam, stratified sandy loam to silt loam, stratified silt loam to clay loam	CL, ML	A-4, A-6, A-7-6	0	0	100	100	90-100	20-100	25-45	2-20	
WeB: Weinbach-----	0-12 12-20	Silt loam Silt loam, silty clay loam	CL, CL-ML CL	A-4, A-6 A-4, A-6	0 0	0 0	100 100	100 100	85-100 90-100	60-90 70-96	20-40 25-35	5-15 8-15	
	20-41	Silt loam, silty clay loam, clay loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-96	25-42	8-20	
	41-52	Silty clay loam, silt loam, clay loam, loam	CL	A-6, A-7-6	0	0	100	100	90-100	80-96	30-45	15-25	
	52-82	Stratified loam to silty clay loam, stratified sandy loam to silt loam, stratified silt loam to clay loam	CL, ML	A-4, A-6, A-7-6	0	0	100	100	90-100	20-100	25-45	2-20	

Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
WfA: Weinbach-----	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>	
	0-12	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	60-90	20-40	5-15
	12-20	Silt loam, silty clay loam	CL	A-4, A-6	0	0	100	100	90-100	70-96	25-35	8-15
	20-41	Silt loam, silty clay loam, clay loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-96	25-42	8-20
	41-52	Silty clay loam, silt loam, clay loam, loam	CL	A-6, A-7-6	0	0	100	100	90-100	80-96	30-45	15-25
WfB: Weinbach-----	52-82	Stratified loam to silty clay loam, stratified sandy loam to silt loam, stratified silt loam to clay loam	ML, CL	A-4, A-6, A-7-6	0	0	100	100	90-100	20-100	25-45	2-20
	0-12	Silt loam	CL-ML, CL	A-4, A-6	0	0	100	100	85-100	60-90	20-40	5-15
	12-20	Silt loam, silty clay loam	CL	A-4, A-6	0	0	100	100	90-100	70-96	25-35	8-15
	20-41	Silt loam, silty clay loam, clay loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-96	25-42	8-20
	41-52	Silty clay loam, silt loam, clay loam, loam	CL	A-6, A-7-6	0	0	100	100	90-100	80-96	30-45	15-25
WhA: Wheeling-----	52-82	Stratified loam to silty clay loam, stratified sandy loam to silt loam, stratified silt loam to clay loam	ML, CL	A-4, A-6, A-7-6	0	0	100	100	90-100	20-100	25-45	2-20
	0-6	Loam	CL, CL-ML, SM, ML, SC	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	CL, ML, SM, SC	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	SM, GC-GM, CL-ML, GW, GP, GM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10



Table 17.--Engineering Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
WhB: Wheeling-----	In				Pct	Pct					Pct	
	0-6	Loam	SM, SC, CL, CL-ML, ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	ML, SC, SM, CL	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GW, CL-ML, GC-GM, SM, GP, GM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
WhC: Wheeling-----	0-6	Loam	CL, ML, SC, SM, CL-ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GM, CL-ML, GC-GM, SM, GW, GP	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
WhD: Wheeling-----	0-6	Loam	CL-ML, SM, SC, ML, CL	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	ML, CL, SC, SM	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GM, GC-GM, CL-ML, GP, GW, SM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
WhF: Wheeling-----	0-6	Loam	CL, ML, SC, SM, CL-ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	SM, SC, CL, ML	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	SM, GC-GM, CL-ML, GW, GP, GM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10

Table 17.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>	
WkA: Wheeling-----	0-6	Loam	ML, SC, CL-ML, SM, CL	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	SM, GW, CL-ML, GM, GC-GM, GP	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
WkB: Wheeling-----	0-6	Loam	CL, ML, SC, SM, CL-ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	CL-ML, GC-GM, SM, GW, GP, GM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
WkC: Wheeling-----	0-6	Loam	CL, ML, SC, SM, CL-ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GM, SM, GC-GM, CL-ML, GW, GP	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
WkD: Wheeling-----	0-6	Loam	CL, ML, SC, SM, CL-ML	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GP, GM, CL-ML, GC-GM, SM, GW	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10

Table 17.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
WkF: Wheeling-----	In										Pct	
	0-6	Loam	CL-ML, SC, ML, CL, SM	A-4	0	0	90-100	90-100	85-100	45-90	15-35	3-10
	6-49	Clay loam, loam, silt loam	CL, ML, SM, SC	A-4, A-6	0	0	90-100	70-100	65-100	45-80	20-40	2-20
	49-85	Sandy loam, stratified sandy loam, stratified fine sandy loam	GC-GM, CL-ML, GM, GP, GW, SM	A-1, A-2, A-4	0	0-8	80-100	65-100	55-85	40-60	2-19	2-10
WoA: Woolper-----	0-13	Silt loam	CL	A-6, A-4	0	0-5	95-100	90-100	85-100	75-100	25-35	6-15
	13-69	Silty clay, silty clay loam	CL, CH	A-6, A-7-6	0	0-8	95-100	90-100	85-100	75-100	35-65	15-40
	69-101	Clay, silty clay, silty clay loam	CH, CL	A-7-6	0	0-8	95-100	90-100	85-100	75-100	45-75	20-45
WoB: Woolper-----	0-13	Silt loam	CL	A-6, A-4	0	0-5	95-100	90-100	85-100	75-100	25-35	6-15
	13-69	Silty clay, silty clay loam	CL, CH	A-6, A-7-6	0	0-8	95-100	90-100	85-100	75-100	35-65	15-40
	69-101	Clay, silty clay, silty clay loam	CL, CH	A-7-6	0	0-8	95-100	90-100	85-100	75-100	45-75	20-45
WoC: Woolper-----	0-13	Silt loam	CL	A-6, A-4	0	0-5	95-100	90-100	85-100	75-100	25-35	6-15
	13-69	Silty clay, silty clay loam	CL, CH	A-6, A-7-6	0	0-8	95-100	90-100	85-100	75-100	35-65	15-40
	69-101	Clay, silty clay, silty clay loam	CH, CL	A-7-6	0	0-8	95-100	90-100	85-100	75-100	45-75	20-45
ZpA: Zipp-----	0-11	Silty clay	CH, CL	A-7-6	0	0	100	100	95-100	90-95	45-55	20-30
	11-55	Clay, silty clay	CH, CL	A-7-6	0	0	100	100	95-100	90-96	45-60	25-35
	55-85	Clay, silty clay	CH, CL	A-7-6	0	0	100	100	90-100	75-98	45-60	25-35

# Soil Survey of Jefferson County, Kentucky

Table 18.--Physical Soil Properties

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" apply only to the surface layer. Absence of an entry indicates that data were not estimated)

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
AfB: Alford-----	0-7	5-19	50-80	12-26	1.30-1.60	4.23-14.00	0.18-0.24	0.0-2.9	0.5-3.0	.37	.37	5	8
	7-55	5-19	50-80	12-34	1.40-1.60	4.23-14.00	0.14-0.21	3.0-5.9	0.0-1.0	.37	.37		
	55-84	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
AfC: Alford-----	0-7	5-19	50-80	12-26	1.30-1.60	4.23-14.00	0.18-0.24	0.0-2.9	0.5-3.0	.37	.37	5	8
	7-55	5-19	50-80	12-34	1.40-1.60	4.23-14.00	0.14-0.21	3.0-5.9	0.0-1.0	.37	.37		
	55-84	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
AfD: Alford-----	0-7	5-19	50-80	12-26	1.30-1.60	4.23-14.00	0.18-0.24	0.0-2.9	0.5-3.0	.37	.37	5	8
	7-55	5-19	50-80	12-34	1.40-1.60	4.23-14.00	0.14-0.21	3.0-5.9	0.0-1.0	.37	.37		
	55-84	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
AfF: Alford-----	0-7	5-19	50-80	12-26	1.30-1.60	4.23-14.00	0.18-0.24	0.0-2.9	0.5-3.0	.37	.37	5	8
	7-55	5-19	50-80	12-34	1.40-1.60	4.23-14.00	0.14-0.21	3.0-5.9	0.0-1.0	.37	.37		
	55-84	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
BeB: Beasley-----	0-7	5-19	50-80	12-26	1.30-1.60	4.23-14.00	0.18-0.24	0.0-2.9	0.5-3.0	.37	.37	5	8
	7-55	5-19	50-80	12-34	1.40-1.60	4.23-14.00	0.14-0.21	3.0-5.9	0.0-1.0	.37	.37		
	55-84	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
BeD: Beasley-----	0-6	20-30	50-80	12-26	1.20-1.40	4.23-14.00	0.18-0.23	0.0-2.9	0.5-4.0	.43	.43	3	8
	6-48	2-19	30-60	40-50	1.30-1.55	0.10-1.00	0.12-0.18	3.0-5.9	0.1-0.5	.28	.28		
	48-58	---	---	---	---	---	---	---	---	---	---		
BeC: Beasley-----	0-6	20-30	50-80	12-26	1.20-1.40	4.23-14.00	0.18-0.23	0.0-2.9	0.5-4.0	.43	.43	3	8
	6-48	2-19	30-60	40-50	1.30-1.55	0.10-1.00	0.12-0.18	3.0-5.9	0.1-0.5	.28	.28		
	48-58	---	---	---	---	---	---	---	---	---	---		
BeD: Beasley-----	0-6	20-30	50-80	12-26	1.20-1.40	4.23-14.00	0.18-0.23	0.0-2.9	0.5-4.0	.43	.43	3	8
	6-48	2-19	30-60	40-50	1.30-1.55	0.10-1.00	0.12-0.18	3.0-5.9	0.1-0.5	.28	.28		
	48-58	---	---	---	---	---	---	---	---	---	---		
Bo: Boonewood-----	0-6	20-50	50-80	12-26	1.20-1.40	4.23-14.00	0.18-0.23	0.0-2.9	3.0-5.0	.37	.37	3	8
	6-23	20-80	40-80	12-34	1.20-1.40	4.23-14.00	0.06-0.12	0.0-2.9	0.0-0.5	.37	.37		
	23-30	2-20	50-80	12-34	1.20-1.40	4.23-14.00	0.06-0.12	0.0-2.9	0.0-0.5	.37	.37		
	30-34	---	---	---	---	---	---	---	---	---	---		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand		Silt		Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
		Pct	Pct	Pct	Pct							Kw	Kf	T	
	In					Pct	g/cc	um/sec	In/in	Pct	Pct				
CaB2: Caneyville-----	0-2	20-30	50-80	12-26	1.20-1.40	4.23-14.00	0.15-0.22	0.0-2.9	2.0-4.0	.43	.43	.43	.43	3	8
	2-30	2-10	30-60	27-60	1.35-1.60	0.10-1.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28	.28	.28		
	30-34	---	---	---	---	---	---	---	---	---	---	---	---		
CaC2: Caneyville-----	0-2	20-30	50-80	12-26	1.20-1.40	4.23-14.00	0.15-0.22	0.0-2.9	2.0-4.0	.43	.43	.43	.43	3	8
	2-30	2-10	30-60	27-60	1.35-1.60	0.10-1.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28	.28	.28		
	30-34	---	---	---	---	---	---	---	---	---	---	---	---		
CaD2: Caneyville-----	0-2	20-30	50-80	12-26	1.20-1.40	4.23-14.00	0.15-0.22	0.0-2.9	2.0-4.0	.43	.43	.43	.43	3	8
	2-30	2-10	30-60	27-60	1.35-1.60	0.10-1.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28	.28	.28		
	30-34	---	---	---	---	---	---	---	---	---	---	---	---		
CcF2: Caneyville-----	0-2	20-30	50-80	12-26	1.20-1.40	4.23-14.00	0.15-0.22	0.0-2.9	2.0-4.0	.43	.43	.43	.43	3	8
	2-30	2-10	30-60	27-60	1.35-1.60	0.10-1.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28	.28	.28		
	30-34	---	---	---	---	---	---	---	---	---	---	---	---		
Rock outcrop.															
CeF: Carpenter-----	0-6	20-40	50-80	12-26	1.20-1.40	4.23-14.00	0.16-0.22	0.0-2.9	1.0-4.0	.32	.32	.32	.32	4	8
	6-38	10-19	40-73	12-40	1.20-1.50	4.23-14.00	0.10-0.20	0.0-2.9	0.0-0.5	.28	.28	.28	.28		
	38-45	10-19	40-73	27-50	1.20-1.50	1.40-4.23	0.10-0.20	0.0-2.9	0.0-0.5	.28	.28	.28	.28		
Cm. Cemeteries	45-68	---	---	---	---	---	---	---	---	---	---	---	---		
CnF: Chagrins-----	0-10	23-52	28-50	7-26	1.20-1.40	4.23-14.00	0.20-0.24	0.0-2.9	2.0-4.0	.32	.32	.32	.32	5	8
	10-39	20-50	30-79	10-26	1.20-1.50	4.23-14.00	0.14-0.20	0.0-2.9	0.5-1.0	.32	.32	.32	.32		
	39-90	20-86	14-79	8-26	1.20-1.40	4.23-14.00	0.08-0.20	0.0-2.9	0.3-1.0	.32	.32	.32	.32		
Nelse-----	0-12	43-85	15-50	5-18	1.20-1.60	14.00-42.00	0.09-0.14	0.0-2.9	2.0-10	.17	.17	.17	.17	5	8
	12-100	23-85	28-50	7-26	1.40-1.80	14.00-141.00	0.05-0.10	0.0-2.9	0.3-1.0	.15	.15	.15	.15		
Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.32	.32	.32		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	.20	.20	.20		
Co: Combs-----	0-14	23-52	28-50	7-26	1.20-1.50	4.23-42.00	0.12-0.20	0.0-2.9	1.0-5.0	.24	.24	.24	.24	5	8
	14-77	44-84	10-51	5-18	1.20-1.50	4.23-42.00	0.12-0.20	0.0-2.9	0.5-2.0	.28	.28	.28	.28		
	77-102	20-75	30-80	5-28	1.20-1.50	4.23-42.00	0.12-0.20	0.0-2.9	0.5-2.0	.28	.28	.28	.28		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
CrA: Crider-----	0-7	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	2.0-4.0	.32	.32	5	8
	7-24	5-20	40-80	12-34	1.20-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.28	.28		
	24-100	2-10	30-73	27-50	1.20-1.55	4.23-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
CrB: Crider-----	0-7	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	2.0-4.0	.32	.32	5	8
	7-24	5-20	40-80	12-34	1.20-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.28	.28		
	24-100	2-10	30-73	27-50	1.20-1.55	4.23-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
CrC: Crider-----	0-7	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	2.0-4.0	.32	.32	5	8
	7-24	5-20	40-80	12-34	1.20-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.28	.28		
	24-100	2-10	30-73	27-50	1.20-1.55	4.23-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
CrD: Crider-----	0-7	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	2.0-4.0	.32	.32	5	8
	7-24	5-20	40-80	12-34	1.20-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.28	.28		
	24-100	2-10	30-73	27-50	1.20-1.55	4.23-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
DAM. Dam, large													
Dp. Dumps, ash													
EkA: Elk-----	0-12	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-3.0	.37	.37	5	8
	12-36	2-15	50-80	12-34	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-1.0	.37	.37		
	36-69	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.18-0.22	0.0-2.9	0.5-1.0	.28	.28		
	69-87	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.32		
EkB: Elk-----	0-12	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-3.0	.37	.37	5	8
	12-36	2-15	50-80	12-34	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-1.0	.37	.37		
	36-69	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.18-0.22	0.0-2.9	0.5-1.0	.28	.28		
	69-87	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.32		
EkC: Elk-----	0-12	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-3.0	.37	.37	5	8
	12-36	2-15	50-80	12-34	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-1.0	.37	.37		
	36-69	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.18-0.22	0.0-2.9	0.5-1.0	.28	.28		
	69-87	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.32		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
EkD: Elk-----	0-12	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-3.0	.37	.37	5	8
	12-36	2-15	50-80	12-34	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-1.0	.37	.37		
	36-69	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.18-0.22	0.0-2.9	0.5-1.0	.28	.28		
	69-87	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.32		
EoA: Elk-----	0-12	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-3.0	.37	.37	5	8
	12-36	2-15	50-80	12-34	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-1.0	.37	.37		
	36-69	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.18-0.22	0.0-2.9	0.5-1.0	.28	.28		
	69-87	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.32		
EoB: Elk-----	0-12	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-3.0	.37	.37	5	8
	12-36	2-15	50-80	12-34	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-1.0	.37	.37		
	36-69	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.18-0.22	0.0-2.9	0.5-1.0	.28	.28		
	69-87	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.32		
EoC: Elk-----	0-12	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-3.0	.37	.37	5	8
	12-36	2-15	50-80	12-34	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-1.0	.37	.37		
	36-69	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.18-0.22	0.0-2.9	0.5-1.0	.28	.28		
	69-87	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.32		
FaC: Faywood-----	0-12	5-20	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-3.0	.37	.37	5	8
	12-36	2-15	50-80	12-34	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	0.5-1.0	.37	.37		
	36-69	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.18-0.22	0.0-2.9	0.5-1.0	.28	.28		
	69-87	2-15	40-80	12-38	1.20-1.50	4.23-14.00	0.14-0.20	0.0-2.9	0.0-0.5	.28	.32		
FaD: Faywood-----	0-7	20-30	50-80	12-26	1.30-1.40	4.23-14.00	0.18-0.22	0.0-2.9	1.0-2.0	.37	.37	3	8
	7-29	2-19	30-60	27-50	1.35-1.45	0.10-1.00	0.12-0.17	3.0-5.9	0.0-0.5	.28	.28		
	29-33	---	---	---	---	---	---	---	---	---	---		
FeC3: Faywood-----	0-7	20-30	50-80	12-26	1.30-1.40	4.23-14.00	0.18-0.22	0.0-2.9	1.0-2.0	.37	.37	3	8
	7-29	2-19	30-60	27-50	1.35-1.45	0.10-1.00	0.12-0.17	3.0-5.9	0.0-0.5	.28	.28		
	29-33	---	---	---	---	---	---	---	---	---	---		
FeD3: Faywood-----	0-2	20-30	50-80	12-26	1.30-1.40	4.23-14.00	0.18-0.22	0.0-2.9	1.0-2.0	.37	.37	2	8
	2-33	2-19	30-60	27-50	1.35-1.45	0.10-1.00	0.12-0.17	3.0-5.9	0.0-0.5	.28	.28		
	33-37	---	---	---	---	---	---	---	---	---	---		
FeD3: Faywood-----	0-2	20-30	50-80	12-26	1.30-1.40	4.23-14.00	0.18-0.22	0.0-2.9	1.0-2.0	.37	.37	2	8
	2-33	2-19	30-60	27-50	1.35-1.45	0.10-1.00	0.12-0.17	3.0-5.9	0.0-0.5	.28	.28		
	33-37	---	---	---	---	---	---	---	---	---	---		

Soil Survey of Jefferson County, Kentucky

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
FsF: Faywood-----													
	0-7	20-30	50-80	12-26	1.30-1.40	4.23-14.00	0.18-0.22	0.0-2.9	1.0-2.0	.37	.37	3	8
	7-29	2-19	30-60	27-50	1.35-1.45	0.10-1.00	0.12-0.17	3.0-5.9	0.0-0.5	.28	.28		
	29-33	---	---	---	---	---	---	---	---	---	---		
Shrouts-----													
	0-2	20-30	50-80	12-26	1.40-1.55	4.23-14.00	0.15-0.20	0.0-2.9	0.5-3.0	.43	.43	2	8
	2-20	2-15	30-60	40-60	1.40-1.65	0.10-1.00	0.13-0.17	3.0-5.9	0.0-0.5	.28	.28		
	20-35	2-15	30-60	40-60	1.40-1.80	0.10-1.00	0.08-0.14	3.0-5.9	0.0-0.5	.28	.28		
	35-45	---	---	---	---	---	---	---	---	---	---		
Beasley-----													
	0-6	20-30	50-80	12-26	1.20-1.40	4.23-14.00	0.18-0.23	0.0-2.9	0.5-4.0	.43	.43	3	8
	6-48	2-19	30-60	40-50	1.30-1.55	0.10-1.00	0.12-0.18	3.0-5.9	0.1-0.5	.28	.28		
	48-58	---	---	---	---	---	---	---	---	---	---		
GpD: Gilpin-----													
	0-12	2-49	50-80	12-26	1.20-1.40	4.23-14.00	0.12-0.18	0.0-2.9	2.0-4.0	.32	.32	3	8
	12-23	2-49	30-80	10-34	1.20-1.50	4.23-14.00	0.12-0.16	0.0-2.9	0.0-0.5	.28	.28		
	23-31	2-49	30-80	10-26	1.20-1.50	4.23-14.00	0.08-0.12	0.0-2.9	0.0-0.5	.24	.32		
	31-35	---	---	---	---	---	---	---	---	---	---		
GwF: Gilpin-----													
	0-12	2-49	50-80	12-26	1.20-1.40	4.23-14.00	0.12-0.18	0.0-2.9	2.0-4.0	.32	.32	3	8
	12-23	2-49	30-80	10-34	1.20-1.50	4.23-14.00	0.12-0.16	0.0-2.9	0.0-0.5	.28	.28		
	23-31	2-49	30-80	10-26	1.20-1.50	4.23-14.00	0.08-0.12	0.0-2.9	0.0-0.5	.24	.32		
	31-35	---	---	---	---	---	---	---	---	---	---		
Weikert-----													
	0-4	20-50	50-80	12-26	1.20-1.40	42.00-141.00	0.20-0.24	0.0-2.9	1.0-3.0	.28	.28	2	8
	4-18	20-50	30-80	7-26	1.20-1.40	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.28	.37		
	18-28	---	---	---	---	---	---	---	---	---	---		
Ha: Huntington-----													
	0-22	5-19	50-80	12-26	1.10-1.30	4.23-14.00	0.18-0.24	0.0-2.9	3.0-6.0	.28	.28	5	8
	22-59	5-19	50-80	12-34	1.30-1.50	4.23-14.00	0.16-0.22	0.0-2.9	0.0-0.5	.32	.32		
	59-94	5-80	20-80	12-34	1.30-1.50	4.23-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.28		
Hf: Huntington-----													
	0-22	5-19	50-80	12-26	1.10-1.30	4.23-14.00	0.18-0.24	0.0-2.9	3.0-6.0	.28	.28	5	8
	22-59	5-19	50-80	12-34	1.30-1.50	4.23-14.00	0.16-0.22	0.0-2.9	0.0-0.5	.32	.32		
	59-94	5-80	20-80	12-34	1.30-1.50	4.23-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.28		
LaA: Lawrence-----													
	0-10	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	1.0-4.0	.43	.43	3	8
	10-27	2-15	50-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	27-44	2-15	50-80	12-34	1.50-1.70	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	44-80	2-15	40-80	12-60	1.50-1.70	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		



Soil Survey of Jefferson County, Kentucky

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
LaB: Lawrence-----	0-10	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	1.0-4.0	.43	.43	3	8
	10-27	2-15	50-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	27-44	2-15	50-80	12-34	1.50-1.70	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	44-80	2-15	40-80	12-60	1.50-1.70	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
LbA: Lawrence-----	0-10	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	1.0-4.0	.43	.43	3	8
	10-27	2-15	50-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	27-44	2-15	50-80	12-34	1.50-1.70	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	44-80	2-23	35-80	12-60	1.50-1.70	4.23-42.00	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
LbB: Lawrence-----	0-10	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	1.0-4.0	.43	.43	3	8
	10-27	2-15	50-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	27-44	2-15	50-80	12-34	1.50-1.70	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	44-80	2-23	35-80	12-60	1.50-1.70	4.23-42.00	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
Ld: Lindside-----	0-16	5-19	40-80	12-26	1.20-1.40	4.23-14.00	0.20-0.26	0.0-2.9	2.0-4.0	.32	.32	5	8
	16-52	5-80	40-80	12-34	1.20-1.40	4.23-14.00	0.17-0.22	0.0-2.9	0.0-0.5	.37	.37		
	52-90	2-50	40-80	10-34	1.20-1.40	1.40-42.00	0.12-0.18	0.0-2.9	0.0-0.5	.32	.43		
Ln: Lindside-----	0-16	5-19	40-80	12-26	1.20-1.40	4.23-14.00	0.20-0.26	0.0-2.9	2.0-4.0	.32	.32	5	8
	16-52	5-80	40-80	12-34	1.20-1.40	4.23-14.00	0.17-0.22	0.0-2.9	0.0-0.5	.37	.37		
	52-90	2-50	40-80	10-34	1.20-1.40	1.40-42.00	0.12-0.18	0.0-2.9	0.0-0.5	.32	.43		
Me: Melvin-----	0-4	5-19	40-80	12-26	1.20-1.60	4.23-14.00	0.18-0.23	0.0-2.9	0.5-3.0	.43	.43	5	8
	4-56	5-19	40-80	12-34	1.30-1.60	4.23-14.00	0.18-0.23	0.0-2.9	0.5-2.0	.43	.43		
	56-82	2-50	40-80	10-34	1.40-1.70	0.10-1.00	0.16-0.23	0.0-2.9	0.2-1.0	.43	.43		
Mf: Melvin-----	0-4	5-19	40-80	12-26	1.20-1.60	4.23-14.00	0.18-0.23	0.0-2.9	0.5-3.0	.43	.43	5	8
	4-56	5-19	40-80	12-34	1.30-1.60	4.23-14.00	0.18-0.23	0.0-2.9	0.5-2.0	.43	.43		
	56-82	2-50	40-80	10-34	1.40-1.70	0.10-1.00	0.16-0.23	0.0-2.9	0.2-1.0	.43	.43		
Ne: Newark-----	0-6	5-19	40-80	12-26	1.20-1.40	4.23-14.00	0.15-0.23	0.0-2.9	1.0-4.0	.43	.43	5	8
	6-41	5-19	40-80	12-34	1.20-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.43	.43		
	41-98	2-15	40-80	12-34	1.30-1.50	4.23-14.00	0.15-0.22	0.0-2.9	0.0-0.5	.43	.43		
Nf: Newark-----	0-6	5-19	40-80	12-26	1.20-1.40	4.23-14.00	0.15-0.23	0.0-2.9	1.0-4.0	.43	.43	5	8
	6-41	5-19	40-80	12-34	1.20-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.43	.43		
	41-98	2-15	40-80	12-34	1.30-1.50	4.23-14.00	0.15-0.22	0.0-2.9	0.0-0.5	.43	.43		

Table 18.—Physical Soil Properties—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
NnA: Nicholson-----	0-7	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	3	8
	7-27	2-15	40-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43		
	27-59	2-15	40-80	12-34	1.50-1.70	0.00-0.10	0.07-0.12	0.0-2.9	0.0-0.5	.43	.43		
	59-74	2-15	40-80	12-50	1.40-1.60	0.42-4.23	0.07-0.22	0.0-2.9	0.0-0.5	.43	.43		
	74-87	2-15	30-59	40-60	1.40-1.60	0.42-4.23	0.07-0.12	3.0-5.9	0.0-0.5	.37	.37		
NnB: Nicholson-----	0-7	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	3	8
	7-27	2-15	40-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43		
	27-59	2-15	40-80	12-34	1.50-1.70	0.00-0.10	0.07-0.12	0.0-2.9	0.0-0.5	.43	.43		
	59-74	2-15	40-80	12-50	1.40-1.60	0.42-4.23	0.07-0.22	0.0-2.9	0.0-0.5	.43	.43		
	74-87	2-15	30-59	40-60	1.40-1.60	0.42-4.23	0.07-0.12	3.0-5.9	0.0-0.5	.37	.37		
NnC: Nicholson-----	0-7	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	3	8
	7-27	2-15	40-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43		
	27-59	2-15	40-80	12-34	1.50-1.70	0.00-0.10	0.07-0.12	0.0-2.9	0.0-0.5	.43	.43		
	59-74	2-15	40-80	12-50	1.40-1.60	0.42-4.23	0.07-0.22	0.0-2.9	0.0-0.5	.43	.43		
	74-87	2-15	30-59	40-60	1.40-1.60	0.42-4.23	0.07-0.12	3.0-5.9	0.0-0.5	.37	.37		
No: Nolin-----	0-10	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.18-0.23	0.0-2.9	2.0-4.0	.43	.43	5	8
	10-82	5-19	50-80	12-34	1.25-1.50	4.23-14.00	0.18-0.23	0.0-2.9	0.3-2.0	.43	.43		
	82-101	15-52	28-80	10-34	1.30-1.55	4.23-42.00	0.10-0.23	0.0-2.9	0.3-2.0	.43	.43		
OtA: Otwood-----	0-10	20-49	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	3	8
	10-27	19-49	40-80	12-34	1.30-1.50	4.23-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43		
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		
OtB: Otwood-----	0-10	20-49	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	3	8
	10-27	19-49	40-80	12-34	1.30-1.50	4.23-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43		
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		
OtC: Otwood-----	0-10	20-49	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	3	8
	10-27	19-49	40-80	12-34	1.30-1.50	4.23-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43		
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
OwA:													
Otwood-----	0-10	20-49	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	3	8
	10-27	19-49	40-80	12-34	1.30-1.50	4.23-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43		
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		
OwB:													
Otwood-----	0-10	20-49	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	3	8
	10-27	19-49	40-80	12-34	1.30-1.50	4.23-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43		
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		
OwC:													
Otwood-----	0-10	20-49	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	3	8
	10-27	19-49	40-80	12-34	1.30-1.50	4.23-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43		
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		
Pa:													
Patton-----	0-11	2-19	50-80	12-26	1.20-1.40	4.23-14.00	0.22-0.24	0.0-2.9	1.0-5.0	.28	.28	5	8
	11-48	2-19	40-73	27-40	1.25-1.45	4.23-14.00	0.18-0.20	3.0-5.9	0.5-1.2	.43	.43		
	48-85	2-19	40-80	12-40	1.30-1.50	0.10-1.00	0.18-0.22	3.0-5.9	0.2-0.8	.43	.43		
Pt. Pits, quarries													
RoA:													
Robertsville-----	0-10	2-19	50-80	12-26	1.30-1.50	4.23-14.00	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43	3	8
	10-16	2-19	40-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43		
	16-74	2-19	40-80	12-34	1.50-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	74-90	5-50	40-80	22-60	1.40-1.60	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
RpA:													
Robertsville-----	0-10	2-19	50-80	12-26	1.30-1.50	4.23-14.00	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43	3	8
	10-16	2-19	40-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43		
	16-74	2-19	40-80	12-34	1.50-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	74-90	5-50	35-80	22-60	1.40-1.60	4.23-42.00	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
SaB:													
Sandview-----	0-10	2-19	50-80	12-26	1.30-1.40	4.23-14.00	0.18-0.23	0.0-2.9	1.0-4.0	.37	.37	5	8
	10-41	2-19	40-80	12-34	1.30-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.32	.32		
	41-82	2-19	30-60	40-60	1.35-1.60	4.23-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		

Soil Survey of Jefferson County, Kentucky

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
SaC: Sandview-----	0-10	2-19	50-80	12-26	1.30-1.40	4.23-14.00	0.18-0.23	0.0-2.9	1.0-4.0	.37	.37	5	8
	10-41	2-19	40-80	12-34	1.30-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.32	.32		
	41-82	2-19	30-60	40-60	1.35-1.60	4.23-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
ScA: Sciotoville-----	0-10	2-19	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	1.0-3.0	.37	.37	3	8
	10-18	2-19	40-80	12-34	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	18-77	2-50	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.2	.37	.37		
	77-100	20-60	30-80	7-40	1.55-1.65	4.23-42.00	0.19-0.21	3.0-5.9	0.0-0.5	.37	.37		
ScB: Sciotoville-----	0-10	2-19	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	1.0-3.0	.37	.37	3	8
	10-18	2-19	40-80	12-34	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	18-77	2-50	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.2	.37	.37		
	77-100	20-60	30-80	7-40	1.55-1.65	4.23-42.00	0.19-0.21	3.0-5.9	0.0-0.5	.37	.37		
ScC: Sciotoville-----	0-10	2-19	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	1.0-3.0	.37	.37	3	8
	10-18	2-19	40-80	12-34	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	18-77	2-50	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.2	.37	.37		
	77-100	20-60	30-80	7-40	1.55-1.65	4.23-42.00	0.19-0.21	3.0-5.9	0.0-0.5	.37	.37		
SdA: Sciotoville-----	0-10	2-19	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	1.0-3.0	.37	.37	3	8
	10-18	2-19	40-80	12-34	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	18-77	2-50	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.2	.37	.37		
	77-100	20-60	30-80	7-40	1.55-1.65	4.23-42.00	0.19-0.21	3.0-5.9	0.0-0.5	.37	.37		
SdB: Sciotoville-----	0-10	2-19	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	1.0-3.0	.37	.37	3	8
	10-18	2-19	40-80	12-34	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	18-77	2-50	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.2	.37	.37		
	77-100	20-60	30-80	7-40	1.55-1.65	4.23-42.00	0.19-0.21	3.0-5.9	0.0-0.5	.37	.37		
ShC3: Shrouts-----	0-2	20-30	50-80	12-26	1.40-1.55	4.23-14.00	0.15-0.20	0.0-2.9	0.5-3.0	.43	.43	2	8
	2-20	2-15	30-60	40-60	1.40-1.65	0.10-1.00	0.13-0.17	3.0-5.9	0.0-0.5	.28	.28		
	20-35	2-15	30-60	40-60	1.40-1.80	0.10-1.00	0.08-0.14	3.0-5.9	0.0-0.5	.28	.28		
	35-45	---	---	---	---	---	---	---	---	---	---		
ShD3: Shrouts-----	0-2	20-30	50-80	12-26	1.40-1.55	4.23-14.00	0.15-0.20	0.0-2.9	0.5-3.0	.43	.43	2	8
	2-20	2-15	30-60	40-60	1.40-1.65	0.10-1.00	0.13-0.17	3.0-5.9	0.0-0.5	.28	.28		
	20-35	2-15	30-60	40-60	1.40-1.80	0.10-1.00	0.08-0.14	3.0-5.9	0.0-0.5	.28	.28		
	35-45	---	---	---	---	---	---	---	---	---	---		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
TjB: Tilsit-----	0-5	5-49	50-82	8-26	1.20-1.55	4.23-14.00	0.16-0.22	0.0-2.9	1.0-3.0	.43	.43	3	8
	5-32	5-49	30-82	10-34	1.30-1.55	4.23-14.00	0.16-0.22	0.0-2.9	0.0-0.5	.43	.43		
	32-60	5-49	30-82	10-34	1.40-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	60-85	2-49	40-82	12-40	1.40-1.60	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
TjC: Tilsit-----	0-5	5-49	50-82	8-26	1.20-1.55	4.23-14.00	0.16-0.22	0.0-2.9	1.0-3.0	.43	.43	3	8
	5-32	5-49	30-82	10-34	1.30-1.55	4.23-14.00	0.16-0.22	0.0-2.9	0.0-0.5	.43	.43		
	32-60	5-49	30-82	10-34	1.40-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	60-85	2-49	40-82	12-40	1.40-1.60	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
TjD: Tilsit-----	0-5	5-49	50-82	8-26	1.20-1.55	4.23-14.00	0.16-0.22	0.0-2.9	1.0-3.0	.43	.43	3	8
	5-32	5-49	30-82	10-34	1.30-1.55	4.23-14.00	0.16-0.22	0.0-2.9	0.0-0.5	.43	.43		
	32-60	5-49	30-82	10-34	1.40-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	60-85	2-49	40-82	12-40	1.40-1.60	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
Ua. Urban land.													
UabC: Urban land.													
Haplic Udarents--	0-30	2-20	50-80	12-34	1.20-1.40	0.42-14.00	0.06-0.12	0.0-2.9	0.0-0.5	.37	.37	--	8
	30-34	---	---	---	---	---	---	---	---	---	---		
Boonewood-----	0-6	20-50	50-80	12-26	1.20-1.40	4.23-14.00	0.18-0.23	0.0-2.9	3.0-5.0	.37	.37	3	8
	6-23	20-80	40-80	12-34	1.20-1.40	4.23-14.00	0.06-0.12	0.0-2.9	0.0-0.5	.37	.37		
	23-30	2-20	50-80	12-34	1.20-1.40	4.23-14.00	0.06-0.12	0.0-2.9	0.0-0.5	.37	.37		
	30-34	---	---	---	---	---	---	---	---	---	---		
UacB: Urban land.													
Haplic Udarents--	0-77	44-84	10-51	5-18	1.20-1.50	4.23-42.00	0.12-0.20	0.0-2.9	0.5-2.0	.28	.28	--	8
	77-102	20-75	30-80	5-28	1.20-1.50	4.23-42.00	0.12-0.20	0.0-2.9	0.5-2.0	.28	.28		
Combs-----	0-14	23-52	28-50	7-26	1.20-1.50	4.23-42.00	0.12-0.20	0.0-2.9	1.0-5.0	.24	.24	5	8
	14-77	44-84	10-51	5-18	1.20-1.50	4.23-42.00	0.12-0.20	0.0-2.9	0.5-2.0	.28	.28		
	77-102	20-75	30-80	5-28	1.20-1.50	4.23-42.00	0.12-0.20	0.0-2.9	0.5-2.0	.28	.28		
UadB: Urban land.													
Haplic Udarents--	0-56	5-19	40-80	12-34	1.30-1.60	1.40-14.00	0.18-0.23	0.0-2.9	0.5-2.0	.43	.43	--	8
	56-82	2-50	40-80	10-34	1.40-1.70	0.10-1.00	0.16-0.23	0.0-2.9	0.2-1.0	.43	.43		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
UadB:													
Melvin-----	0-4	5-19	40-80	12-26	1.20-1.60	4.23-14.00	0.18-0.23	0.0-2.9	0.5-3.0	.43	.43	5	8
	4-56	5-19	40-80	12-34	1.30-1.60	4.23-14.00	0.18-0.23	0.0-2.9	0.5-2.0	.43	.43		
	56-82	2-50	40-80	10-34	1.40-1.70	0.10-1.00	0.16-0.23	0.0-2.9	0.2-1.0	.43	.43		
UaeB:													
Urban land.													
Haplic Udarents--	0-41	5-19	40-80	12-34	1.20-1.45	0.42-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.43	.43	--	8
	41-98	2-15	40-80	12-34	1.30-1.50	0.42-14.00	0.15-0.22	0.0-2.9	0.0-0.5	.43	.43		
Newark-----	0-6	5-19	40-80	12-26	1.20-1.40	4.23-14.00	0.15-0.23	0.0-2.9	1.0-4.0	.43	.43	5	8
	6-41	5-19	40-80	12-34	1.20-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.43	.43		
	41-98	2-15	40-80	12-34	1.30-1.50	4.23-14.00	0.15-0.22	0.0-2.9	0.0-0.5	.43	.43		
UafC:													
Urban land.													
Haplic Udarents--	0-55	2-15	30-60	40-60	1.55-1.65	0.00-0.01	0.11-0.13	6.0-8.9	0.5-1.0	.28	.28	--	8
	55-85	2-15	30-60	40-60	1.55-1.70	0.00-0.01	0.08-0.10	6.0-8.9	0.2-1.0	.28	.28		
Zipp-----	0-11	2-15	40-60	40-50	1.40-1.55	1.40-4.23	0.12-0.15	6.0-8.9	1.0-3.0	.28	.28	5	8
	11-55	2-15	30-60	40-60	1.55-1.65	0.00-0.01	0.11-0.13	6.0-8.9	0.5-1.0	.28	.28		
	55-85	2-15	30-60	40-60	1.55-1.70	0.00-0.01	0.08-0.10	6.0-8.9	0.2-1.0	.28	.28		
UagB:													
Urban land.													
Udarents-----	0-50	2-20	50-80	12-34	1.20-1.40	0.42-4.23	0.06-0.12	0.0-2.9	0.0-0.5	.37	.37	--	8
	50-54	---	---	---	---	---	---	---	---	---	---		
UahC:													
Urban land-													
Udorthents													
UaiC:													
Urban land-													
Udorthents													
UajF:													
Urban land-													
Udorthents													
UakF:													
Urban land-													
Udorthents													

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
UamC: Urban land.													
Ultic Udarents---	0-32	5-49	30-82	10-34	1.30-1.55	1.40-14.00	0.16-0.22	0.0-2.9	0.0-0.5	.43	.43	--	8
	32-60	5-49	30-82	10-34	1.40-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	60-85	2-49	40-82	12-40	1.40-1.60	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
Tilsit-----	0-5	5-49	50-82	8-26	1.20-1.55	4.23-14.00	0.16-0.22	0.0-2.9	1.0-3.0	.43	.43	3	8
	5-32	5-49	30-82	10-34	1.30-1.55	4.23-14.00	0.16-0.22	0.0-2.9	0.0-0.5	.43	.43		
	32-60	5-49	30-82	10-34	1.40-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	60-85	2-49	40-82	12-40	1.40-1.60	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
UbC: Urban land.													
Alfic Udarents---	0-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43	--	8
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	--		
UbD: Urban land.													
Alfic Udarents---	0-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43	--	8
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	--		
UcC: Urban land.													
Alfic Udarents---	0-49	20-52	28-60	7-34	1.30-1.50	0.42-4.23	0.08-0.16	0.0-2.9	0.0-0.5	.32	.32	--	8
	49-65	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	--		
	65-69	---	---	---	---	---	---	---	---	---	---		
UcF: Urban land.													
Alfic Udarents---	0-49	20-52	28-60	7-34	1.30-1.50	0.42-4.23	0.08-0.16	0.0-2.9	0.0-0.5	.32	.32	--	8
	49-65	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	--		
	65-69	---	---	---	---	---	---	---	---	---	---		
UdC: Urban land.													
Alfic Udarents---	0-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43	--	8
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	--		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
VeC: Urban land.													
Alfic Udarents---	0-20	2-19	40-80	12-34	1.40-1.60	0.42-4.23	0.20-0.22	0.0-2.9	0.5-2.0	.43	.43	--	8
	20-41	2-25	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	0.0-2.9	0.0-0.5	.43	.43		
	41-52	2-30	30-80	10-40	1.60-1.80	0.42-4.23	0.14-0.18	3.0-5.9	0.0-0.5	.43	.43		
	52-82	2-80	30-80	10-40	1.50-1.65	0.42-4.23	0.19-0.21	0.0-2.9	0.0-0.2	.43	.43		
UfC: Urban land.													
Alfic Udarents---	0-20	2-19	40-80	12-34	1.40-1.60	0.42-4.23	0.20-0.22	0.0-2.9	0.5-2.0	.43	.43	--	8
	20-41	2-25	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	0.0-2.9	0.0-0.5	.43	.43		
	41-52	2-30	30-80	10-40	1.60-1.80	0.42-4.23	0.14-0.18	3.0-5.9	0.0-0.5	.43	.43		
	52-82	2-80	30-80	10-40	1.50-1.65	0.42-4.23	0.19-0.21	0.0-2.9	0.0-0.2	.43	.43		
UgC: Urban land.													
Alfic Udarents---	0-27	5-49	30-82	10-34	1.30-1.55	0.42-4.23	0.16-0.22	0.0-2.9	0.0-0.5	.43	.43	--	8
	27-50	5-49	30-82	10-34	1.40-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	50-58	2-19	30-60	40-50	1.30-1.55	0.42-4.23	0.12-0.18	3.0-5.9	0.1-0.5	.28	.28		
	58-68	---	---	---	---	---	---	---	---	---	---		
UhC: Urban land.													
Alfic Udarents---	0-27	2-15	40-80	12-34	1.40-1.60	0.42-4.23	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43	--	8
	27-59	2-15	40-80	12-34	1.50-1.70	0.00-0.10	0.07-0.12	0.0-2.9	0.0-0.5	.43	.43		
	59-74	2-15	40-80	12-50	1.40-1.60	0.42-4.23	0.07-0.22	0.0-2.9	0.0-0.5	.43	.43		
	74-87	2-15	30-59	40-60	1.40-1.60	0.42-4.23	0.07-0.12	3.0-5.9	0.0-0.5	.37	.37		
	87-91	---	---	---	---	---	---	---	---	---	---		
UiC: Urban land.													
Alfic Udarents---	0-48	2-19	30-60	40-50	1.30-1.55	0.10-1.00	0.12-0.18	3.0-5.9	0.1-0.5	.28	.28	--	8
	48-58	---	---	---	---	---	---	---	---	---	---		
UiD: Urban land.													
Alfic Udarents---	0-48	2-19	30-60	40-50	1.30-1.55	0.10-1.00	0.12-0.18	3.0-5.9	0.1-0.5	.28	.28	--	8
	48-58	---	---	---	---	---	---	---	---	---	---		



Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
U <sub>i</sub> F: Urban land.													
Ultic Udarents---	0-36	5-19	50-80	12-34	1.40-1.60	4.23-14.00	0.14-0.21	3.0-5.9	0.0-1.0	.37	.37	--	8
	36-51	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	51-70	10-19	40-73	27-50	1.20-1.50	1.40-4.23	0.10-0.20	0.0-2.9	0.0-0.5	.28	.32		
	70-80	---	---	---	---	---	---	---	---	---	---		
U <sub>j</sub> C: Urban land.													
Alfic Udarents---	0-24	5-20	40-80	12-34	1.20-1.45	0.42-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.28	.28	--	8
	24-50	2-10	30-73	27-50	1.20-1.55	0.42-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
	50-70	2-10	30-60	27-60	1.35-1.60	0.10-1.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
	70-74	---	---	---	---	---	---	---	---	---	---		
U <sub>j</sub> D: Urban land.													
Alfic Udarents---	0-24	5-20	40-80	12-34	1.20-1.45	0.42-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.28	.28	--	8
	24-50	2-10	30-73	27-50	1.20-1.55	0.42-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
	50-70	2-10	30-60	27-60	1.35-1.60	0.10-1.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
	70-74	---	---	---	---	---	---	---	---	---	---		
U <sub>j</sub> F: Urban land.													
Alfic Udarents---	0-24	5-20	40-80	12-34	1.20-1.45	0.42-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.28	.28	--	8
	24-50	2-10	30-73	27-50	1.20-1.55	0.42-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
	50-70	2-10	30-60	27-60	1.35-1.60	0.10-1.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
	70-74	---	---	---	---	---	---	---	---	---	---		
U <sub>k</sub> C: Urban land.													
Alfic Udarents---	0-48	2-19	30-60	40-50	1.30-1.55	0.10-1.00	0.12-0.18	3.0-5.9	0.1-0.5	.28	.28	--	8
	48-58	---	---	---	---	---	---	---	---	---	---		
Beasley-----	0-6	20-30	50-80	12-26	1.20-1.40	4.23-14.00	0.18-0.23	0.0-2.9	0.5-4.0	.43	.43	3	8
	6-48	2-19	30-60	40-50	1.30-1.55	0.10-1.00	0.12-0.18	3.0-5.9	0.1-0.5	.28	.28		
	48-58	---	---	---	---	---	---	---	---	---	---		
U <sub>l</sub> C: Urban land.													
Alfic Udarents---	0-30	2-10	30-60	27-60	1.35-1.60	0.10-1.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28	--	8
	30-34	---	---	---	---	---	---	---	---	---	---		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
U1C: Caneyville-----	0-2 2-30 30-34	20-30 2-10 ---	50-80 30-60 ---	12-26 27-60 ---	1.20-1.40 1.35-1.60 ---	4.23-14.00 0.10-1.00 ---	0.15-0.22 0.12-0.18 ---	0.0-2.9 3.0-5.9 ---	2.0-4.0 0.0-0.5 ---	.43 .28 ---	.43 .28 ---	3	8
ULD: Urban land.													
Alfic Udarents---	0-30 30-34	2-10 ---	30-60 ---	27-60 ---	1.35-1.60 ---	0.10-1.00 ---	0.12-0.18 ---	3.0-5.9 ---	0.0-0.5 ---	.28 ---	.28 ---	--	8
Caneyville-----	0-2 2-30 30-34	20-30 2-10 ---	50-80 30-60 ---	12-26 27-60 ---	1.20-1.40 1.35-1.60 ---	4.23-14.00 0.10-1.00 ---	0.15-0.22 0.12-0.18 ---	0.0-2.9 3.0-5.9 ---	2.0-4.0 0.0-0.5 ---	.43 .28 ---	.43 .28 ---	3	8
UmC: Urban land.													
Alfic Udarents---	0-24 24-100	5-20 2-10	40-80 30-73	12-34 27-50	1.20-1.45 1.20-1.55	0.42-14.00 0.42-14.00	0.18-0.23 0.12-0.18	0.0-2.9 3.0-5.9	0.0-0.5 0.0-0.5	.28 .28	.28 .28	--	8
Crider-----	0-7 7-24 24-100	5-20 5-20 2-10	50-80 40-80 30-73	12-26 12-34 27-50	1.20-1.40 1.20-1.45 1.20-1.55	4.23-14.00 4.23-14.00 4.23-14.00	0.19-0.23 0.18-0.23 0.12-0.18	0.0-2.9 0.0-2.9 3.0-5.9	2.0-4.0 0.0-0.5 0.0-0.5	.32 .28 .28	.32 .28 .28	5	8
UmD: Urban land.													
Alfic Udarents---	0-24 24-100	5-20 2-10	40-80 30-73	12-34 27-50	1.20-1.45 1.20-1.55	0.42-14.00 0.42-14.00	0.18-0.23 0.12-0.18	0.0-2.9 3.0-5.9	0.0-0.5 0.0-0.5	.28 .28	.28 .28	--	8
Crider-----	0-7 7-24 24-100	5-20 5-20 2-10	50-80 40-80 30-73	12-26 12-34 27-50	1.20-1.40 1.20-1.45 1.20-1.55	4.23-14.00 4.23-14.00 4.23-14.00	0.19-0.23 0.18-0.23 0.12-0.18	0.0-2.9 0.0-2.9 3.0-5.9	2.0-4.0 0.0-0.5 0.0-0.5	.32 .28 .28	.32 .28 .28	5	8
UnC: Urban land.													
Alfic Udarents---	0-36 36-69 69-87	2-15 2-15 2-15	50-80 40-80 40-80	12-34 12-38 12-38	1.20-1.40 1.20-1.50 1.20-1.50	0.42-14.00 0.42-14.00 0.42-14.00	0.19-0.23 0.18-0.22 0.14-0.20	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.5-1.0 0.0-0.5	.37 .28 .32	.37 .28 .32	--	8
Elk-----	0-12 12-36 36-69 69-87	5-20 2-15 2-15 2-15	50-80 50-80 40-80 40-80	12-26 12-34 12-38 12-38	1.20-1.40 1.20-1.40 1.20-1.50 1.20-1.50	4.23-14.00 4.23-14.00 4.23-14.00 4.23-14.00	0.19-0.23 0.19-0.23 0.18-0.22 0.14-0.20	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.5-3.0 0.5-1.0 0.5-1.0 0.0-0.5	.37 .37 .28 .28	.37 .37 .28 .32	5	8

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
VoC: Urban land.													
Alfic Udarents---	0-27	2-15	50-80	12-34	1.40-1.60	1.40-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37	--	8
	27-46	2-15	50-80	12-34	1.50-1.70	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	46-80	2-15	40-80	12-60	1.50-1.70	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
Lawrence-----	0-10	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	1.0-4.0	.43	.43	3	8
	10-27	2-15	50-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	27-44	2-15	50-80	12-34	1.50-1.70	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	44-80	2-15	40-80	12-60	1.50-1.70	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
UpC: Urban land.													
Alfic Udarents---	0-27	2-15	50-80	12-34	1.40-1.60	1.40-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37	--	8
	27-46	2-15	50-80	12-34	1.50-1.70	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	46-80	2-23	35-80	12-60	1.50-1.70	4.23-42.00	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
Lawrence-----	0-10	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	1.0-4.0	.43	.43	3	8
	10-27	2-15	50-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	27-44	2-15	50-80	12-34	1.50-1.70	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	44-80	2-23	35-80	12-60	1.50-1.70	4.23-42.00	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
UqC: Urban land.													
Alfic Udarents---	0-27	2-15	40-80	12-34	1.40-1.60	1.40-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43	--	8
	27-59	2-15	40-80	12-34	1.50-1.70	0.00-0.10	0.07-0.12	0.0-2.9	0.0-0.5	.43	.43		
	59-74	2-15	40-80	12-50	1.40-1.60	0.42-4.23	0.07-0.22	0.0-2.9	0.0-0.5	.43	.43		
	74-87	2-15	30-59	40-60	1.40-1.60	0.42-4.23	0.07-0.12	3.0-5.9	0.0-0.5	.37	.37		
Nicholson-----	0-7	5-19	50-80	12-26	1.20-1.40	4.23-14.00	0.19-0.23	0.0-2.9	2.0-4.0	.43	.43	3	8
	7-27	2-15	40-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43		
	27-59	2-15	40-80	12-34	1.50-1.70	0.00-0.10	0.07-0.12	0.0-2.9	0.0-0.5	.43	.43		
	59-74	2-15	40-80	12-50	1.40-1.60	0.42-4.23	0.07-0.22	0.0-2.9	0.0-0.5	.43	.43		
	74-87	2-15	30-59	40-60	1.40-1.60	0.42-4.23	0.07-0.12	3.0-5.9	0.0-0.5	.37	.37		
UrC: Urban land.													
Alfic Udarents---	0-27	19-49	40-80	12-34	1.30-1.50	1.40-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43	--	8
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
UrC: Otwood-----	0-10	20-49	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	3	8
	10-27	19-49	40-80	12-34	1.30-1.50	4.23-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43		
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		
UsC: Urban land.													
Alfic Udarents---	0-27	19-49	40-80	12-34	1.30-1.50	1.40-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43	--	8
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		
UsC: Otwood-----	0-10	20-49	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	3	8
	10-27	19-49	40-80	12-34	1.30-1.50	4.23-14.00	0.18-0.22	3.0-5.9	0.0-0.5	.43	.43		
	27-46	2-49	40-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	46-83	2-49	28-79	10-34	1.50-1.65	0.42-4.23	0.06-0.08	3.0-5.9	0.0-0.5	.43	.43		
	83-91	2-49	0-51	0-41	1.55-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.5	.37	.37		
UtC: Urban land.													
Alfic Udarents---	0-16	2-19	40-80	12-34	1.40-1.60	1.40-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43	--	8
	16-74	2-19	40-80	12-34	1.50-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	74-90	5-50	40-80	7-40	1.40-1.60	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
Robertsville-----	0-10	2-19	50-80	12-26	1.30-1.50	4.23-14.00	0.19-0.23	0.0-2.9	1.0-3.0	.43	.43	3	8
	10-16	2-19	40-80	12-34	1.40-1.60	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.43	.43		
	16-74	2-19	40-80	12-34	1.50-1.65	0.00-0.10	0.08-0.12	0.0-2.9	0.0-0.5	.43	.43		
	74-90	5-50	40-80	22-60	1.40-1.60	0.42-4.23	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37		
UuC: Urban land.													
Alfic Udarents---	0-41	2-19	40-80	12-34	1.30-1.45	1.40-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.32	.32	--	8
	41-82	2-19	30-60	40-60	1.35-1.60	1.40-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		
Sandview-----	0-10	2-19	50-80	12-26	1.30-1.40	4.23-14.00	0.18-0.23	0.0-2.9	1.0-4.0	.37	.37	5	8
	10-41	2-19	40-80	12-34	1.30-1.45	4.23-14.00	0.18-0.23	0.0-2.9	0.0-0.5	.32	.32		
	41-82	2-19	30-60	40-60	1.35-1.60	4.23-14.00	0.12-0.18	3.0-5.9	0.0-0.5	.28	.28		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
UvC: Urban land.													
Alfic Udarents---	0-18	2-19	40-80	12-34	1.30-1.45	1.40-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37	--	8
	18-77	2-50	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.2	.37	.37		
	77-100	20-60	30-80	7-40	1.55-1.65	4.23-42.00	0.19-0.21	3.0-5.9	0.0-0.5	.37	.37		
Sciotoville-----	0-10	2-19	50-80	12-26	1.25-1.40	4.23-14.00	0.22-0.24	0.0-2.9	1.0-3.0	.37	.37	3	8
	10-18	2-19	40-80	12-34	1.30-1.45	4.23-14.00	0.18-0.22	0.0-2.9	0.0-0.5	.37	.37		
	18-77	2-50	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	3.0-5.9	0.0-0.2	.37	.37		
	77-100	20-60	30-80	7-40	1.55-1.65	4.23-42.00	0.19-0.21	3.0-5.9	0.0-0.5	.37	.37		
UwC: Urban land.													
Alfic Udarents---	0-20	2-15	30-60	40-60	1.40-1.65	0.10-1.00	0.13-0.17	3.0-5.9	0.0-0.5	.28	.28	--	8
	20-35	2-15	30-60	40-60	1.40-1.80	0.10-1.00	0.08-0.14	3.0-5.9	0.0-0.5	.28	.28		
	35-45	---	---	---	---	---	---	---	---	---	---		
Shrouts-----	0-2	20-30	50-80	12-26	1.40-1.55	4.23-14.00	0.15-0.20	0.0-2.9	0.5-3.0	.43	.43	2	8
	2-20	2-15	30-60	40-60	1.40-1.65	0.10-1.00	0.13-0.17	3.0-5.9	0.0-0.5	.28	.28		
	20-35	2-15	30-60	40-60	1.40-1.80	0.10-1.00	0.08-0.14	3.0-5.9	0.0-0.5	.28	.28		
	35-45	---	---	---	---	---	---	---	---	---	---		
UwD: Urban land.													
Alfic Udarents---	0-20	2-15	30-60	40-60	1.40-1.65	0.10-1.00	0.13-0.17	3.0-5.9	0.0-0.5	.28	.28	--	8
	20-35	2-15	30-60	40-60	1.40-1.80	0.10-1.00	0.08-0.14	3.0-5.9	0.0-0.5	.28	.28		
	35-45	---	---	---	---	---	---	---	---	---	---		
Shrouts-----	0-2	20-30	50-80	12-26	1.40-1.55	4.23-14.00	0.15-0.20	0.0-2.9	0.5-3.0	.43	.43	2	8
	2-20	2-15	30-60	40-60	1.40-1.65	0.10-1.00	0.13-0.17	3.0-5.9	0.0-0.5	.28	.28		
	20-35	2-15	30-60	40-60	1.40-1.80	0.10-1.00	0.08-0.14	3.0-5.9	0.0-0.5	.28	.28		
	35-45	---	---	---	---	---	---	---	---	---	---		
UxC: Urban land.													
Alfic Udarents---	0-20	2-19	40-80	12-34	1.40-1.60	1.40-14.00	0.20-0.22	0.0-2.9	0.5-2.0	.43	.43	--	8
	20-41	2-25	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	0.0-2.9	0.0-0.5	.43	.43		
	41-52	2-30	30-80	10-40	1.60-1.80	0.42-4.23	0.14-0.18	3.0-5.9	0.0-0.5	.43	.43		
	52-82	2-80	30-80	10-40	1.50-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.2	.43	.43		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
UxC: Weinbach-----	0-12	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	3	8
	12-20	2-19	40-80	12-34	1.40-1.60	4.23-14.00	0.20-0.22	0.0-2.9	0.5-2.0	.43	.43		
	20-41	2-25	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	0.0-2.9	0.0-0.5	.43	.43		
	41-52	2-30	30-80	10-40	1.60-1.80	0.42-4.23	0.14-0.18	3.0-5.9	0.0-0.5	.43	.43		
	52-82	2-80	30-80	10-40	1.50-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.2	.43	.43		
UyC: Urban land.													
Alflic Udarents---	0-49	20-52	28-60	7-34	1.30-1.50	1.40-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.32	--	8
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
UyD: Urban land.													
Alflic Udarents---	0-49	20-52	28-60	7-34	1.30-1.50	1.40-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.32	--	8
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
UzC: Urban land.													
Alflic Udarents---	0-49	20-52	28-60	7-34	1.30-1.50	1.40-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.32	--	8
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
W. Water													
WeA: Weinbach-----	0-12	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	3	8
	12-20	2-19	40-80	12-34	1.40-1.60	4.23-14.00	0.20-0.22	0.0-2.9	0.5-2.0	.43	.43		
	20-41	2-25	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	0.0-2.9	0.0-0.5	.43	.43		
	41-52	2-30	30-80	10-40	1.60-1.80	0.42-4.23	0.14-0.18	3.0-5.9	0.0-0.5	.43	.43		
	52-82	2-80	30-80	10-40	1.50-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.2	.43	.43		

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct				
WeB: Weinbach-----	0-12	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	3	8
	12-20	2-19	40-80	12-34	1.40-1.60	4.23-14.00	0.20-0.22	0.0-2.9	0.5-2.0	.43	.43		
	20-41	2-25	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	0.0-2.9	0.0-0.5	.43	.43		
	41-52	2-30	30-80	10-40	1.60-1.80	0.42-4.23	0.14-0.18	3.0-5.9	0.0-0.5	.43	.43		
	52-82	2-80	30-80	10-40	1.50-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.2	.43	.43		
WeA: Weinbach-----	0-12	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	3	8
	12-20	2-19	40-80	12-34	1.40-1.60	4.23-14.00	0.20-0.22	0.0-2.9	0.5-2.0	.43	.43		
	20-41	2-25	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	0.0-2.9	0.0-0.5	.43	.43		
	41-52	2-30	30-80	10-40	1.60-1.80	0.42-4.23	0.14-0.18	3.0-5.9	0.0-0.5	.43	.43		
	52-82	2-80	30-80	10-40	1.50-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.2	.43	.43		
WeB: Weinbach-----	0-12	5-19	50-80	12-26	1.30-1.45	4.23-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	3	8
	12-20	2-19	40-80	12-34	1.40-1.60	4.23-14.00	0.20-0.22	0.0-2.9	0.5-2.0	.43	.43		
	20-41	2-25	30-80	12-34	1.60-1.80	0.00-0.10	0.06-0.08	0.0-2.9	0.0-0.5	.43	.43		
	41-52	2-30	30-80	10-40	1.60-1.80	0.42-4.23	0.14-0.18	3.0-5.9	0.0-0.5	.43	.43		
	52-82	2-80	30-80	10-40	1.50-1.65	4.23-42.00	0.19-0.21	0.0-2.9	0.0-0.2	.43	.43		
WhA: Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
WhB: Wheeling-----	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
WhC: Wheeling-----	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
WhD: Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
WhF: Wheeling-----	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43		
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---		
	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4	8

# Soil Survey of Jefferson County, Kentucky

Table 18.--Physical Soil Properties--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Erosion factors			Wind erodi- bility group
									Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Organic matter	Pct		
WkA: Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43	
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---	
WkB: Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43	
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---	
WkC: Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43	
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---	
WkD: Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43	
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---	
WkF: Wheeling-----	0-6	23-52	28-50	7-26	1.20-1.40	4.23-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.37	.37	4
	6-49	20-52	28-60	7-34	1.30-1.50	4.23-42.00	0.08-0.16	0.0-2.9	0.0-0.5	.32	.43	
	49-85	55-80	10-30	5-18	1.30-1.50	42.00-141.00	0.04-0.08	0.0-2.9	0.0-0.5	.20	---	
WoA: Woolper-----	0-13	15-30	50-80	12-26	1.30-1.50	4.23-14.00	0.18-0.22	0.0-2.9	4.0-6.0	.37	.37	3
	13-69	10-19	40-73	27-60	1.30-1.55	1.41-14.00	0.13-0.19	3.0-5.9	0.0-0.5	.28	.28	
	69-101	10-19	30-73	27-60	1.45-1.65	0.10-1.00	0.12-0.17	3.0-5.9	0.0-0.5	.28	.28	
WoB: Woolper-----	0-13	15-30	50-80	12-26	1.30-1.50	4.23-14.00	0.18-0.22	0.0-2.9	4.0-6.0	.37	.37	3
	13-69	10-19	40-73	27-60	1.30-1.55	1.41-14.00	0.13-0.19	3.0-5.9	0.0-0.5	.28	.28	
	69-101	10-19	30-73	27-60	1.45-1.65	0.10-1.00	0.12-0.17	3.0-5.9	0.0-0.5	.28	.28	
WoC: Woolper-----	0-13	15-30	50-80	12-26	1.30-1.50	4.23-14.00	0.18-0.22	0.0-2.9	4.0-6.0	.37	.37	3
	13-69	10-19	40-73	27-60	1.30-1.55	1.41-14.00	0.13-0.19	3.0-5.9	0.0-0.5	.28	.28	
	69-101	10-19	30-73	27-60	1.45-1.65	0.10-1.00	0.12-0.17	3.0-5.9	0.0-0.5	.28	.28	
ZpA: Zipp-----	0-11	2-15	40-60	40-50	1.40-1.55	1.40-4.23	0.12-0.15	6.0-8.9	1.0-3.0	.28	.28	5
	11-55	2-15	30-60	40-60	1.55-1.65	0.00-0.01	0.11-0.13	6.0-8.9	0.5-1.0	.28	.28	
	55-85	2-15	30-60	40-60	1.55-1.70	0.00-0.01	0.08-0.10	6.0-8.9	0.2-1.0	.28	.28	



# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties

(Absence of an entry indicates that data were not estimated)

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
<b>AfB:</b>					
Alford-----	0-7	10-22	---	4.5-7.3	0
	7-55	---	5.9-17	4.5-5.5	0
	55-84	---	5.9-13	4.0-6.5	0
<b>AfC:</b>					
Alford-----	0-7	10-22	---	4.5-7.3	0
	7-55	---	5.9-18	4.5-5.5	0
	55-84	---	5.9-13	4.0-6.5	0
<b>AfD:</b>					
Alford-----	0-7	10-22	---	4.5-7.3	0
	7-55	---	5.9-18	4.5-5.5	0
	55-84	---	5.9-13	4.0-6.5	0
<b>AfF:</b>					
Alford-----	0-7	10-22	---	4.5-7.3	0
	7-55	---	5.9-18	4.5-5.5	0
	55-84	---	5.9-13	4.0-6.5	0
<b>BeB:</b>					
Beasley-----	0-6	6.4-14	---	4.5-7.3	0-1
	6-48	21-26	---	4.5-7.3	0-8
	48-58	---	---	---	---
<b>BeC:</b>					
Beasley-----	0-6	6.4-14	---	4.5-7.3	0-1
	6-48	20-26	---	4.5-7.3	0-8
	48-58	---	---	---	---
<b>BeD:</b>					
Beasley-----	0-6	6.4-14	---	4.5-7.3	0-1
	6-48	20-26	---	4.5-7.3	0-8
	48-58	---	---	---	---
<b>Bo:</b>					
Boonewood-----	0-6	6.6-14	---	6.1-8.4	0
	6-23	6.1-18	---	6.1-8.4	0
	23-30	6.1-18	---	6.1-8.4	0
	30-34	---	---	---	---
<b>CaB2:</b>					
Caneyville-----	0-2	6.5-14	---	4.5-7.3	0
	2-30	14-31	---	4.5-7.3	0
	30-34	---	---	---	---
<b>CaC2:</b>					
Caneyville-----	0-2	6.5-14	---	4.5-7.3	0
	2-30	14-31	---	4.5-7.3	0
	30-34	---	---	---	---
<b>CaD2:</b>					
Caneyville-----	0-2	6.5-14	---	4.5-7.3	0
	2-30	14-31	---	4.5-7.3	0
	30-34	---	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
CcF2:					
Caneyville-----	0-2	6.5-14	---	4.5-7.3	0
	2-30	14-31	---	4.5-7.3	0
	30-34	---	---	---	---
Rock outcrop.					
CeF:					
Carpenter-----	0-6	4.4-9.6	---	4.5-6.5	0
	6-38	4.1-14	---	4.5-6.5	0
	38-45	---	5.3-12	4.5-6.0	0
	45-68	---	---	---	---
Cm.					
Cemeteries					
CnF:					
Chagrin-----	0-10	3.8-14	---	5.6-7.3	0
	10-39	5.4-14	---	5.6-7.3	0
	39-90	4.3-14	---	5.6-7.3	0
Nelse-----	0-12	2.8-10	---	5.1-8.4	0
	12-100	3.7-14	---	5.1-8.4	0
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-17	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
Co:					
Combs-----	0-14	3.8-14	---	5.6-7.3	0
	14-77	2.7-9.8	---	5.6-7.3	0
	77-102	2.7-15	---	5.6-7.3	0
CrA:					
Crider-----	0-7	6.5-14	---	5.1-7.3	0
	7-24	6.1-18	---	5.1-7.3	0
	24-100	14-26	---	4.5-6.5	0
CrB:					
Crider-----	0-7	6.5-14	---	5.1-7.3	0
	7-24	6.1-18	---	5.1-7.3	0
	24-100	14-26	---	4.5-6.5	0
CrC:					
Crider-----	0-7	6.5-14	---	5.1-7.3	0
	7-24	6.1-18	---	5.1-7.3	0
	24-100	14-26	---	4.5-6.5	0
CrD:					
Crider-----	0-7	6.5-14	---	5.1-7.3	0
	7-24	6.1-18	---	5.1-7.3	0
	24-100	14-26	---	4.5-6.5	0
DAM.					
Dam, large					
Dp.					
Dumps, ash					

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
EkA:					
Elk-----	0-12	6.4-14	---	4.5-6.5	0
	12-36	6.4-18	---	4.5-6.5	0
	36-69	6.4-20	---	4.5-6.5	0
	69-87	6.1-20	---	4.5-6.5	0
EkB:					
Elk-----	0-12	6.4-14	---	4.5-6.5	0
	12-36	6.4-18	---	4.5-6.5	0
	36-69	6.4-20	---	4.5-6.5	0
	69-87	6.1-20	---	4.5-6.5	0
EkC:					
Elk-----	0-12	6.4-14	---	4.5-6.5	0
	12-36	6.4-18	---	4.5-6.5	0
	36-69	6.4-20	---	4.5-6.5	0
	69-87	6.1-20	---	4.5-6.5	0
EkD:					
Elk-----	0-12	6.4-14	---	4.5-6.5	0
	12-36	6.4-18	---	4.5-6.5	0
	36-69	6.4-20	---	4.5-6.5	0
	69-87	6.1-20	---	4.5-6.5	0
EoA:					
Elk-----	0-12	6.4-14	---	4.5-6.5	0
	12-36	6.4-18	---	4.5-6.5	0
	36-69	6.4-20	---	4.5-6.5	0
	69-87	6.1-20	---	4.5-6.5	0
EoB:					
Elk-----	0-12	6.4-14	---	4.5-6.5	0
	12-36	6.4-18	---	4.5-6.5	0
	36-69	6.4-20	---	4.5-6.5	0
	69-87	6.1-20	---	4.5-6.5	0
EoC:					
Elk-----	0-12	6.4-14	---	4.5-6.5	0
	12-36	6.4-18	---	4.5-6.5	0
	36-69	6.4-20	---	4.5-6.5	0
	69-87	6.1-20	---	4.5-6.5	0
FaC:					
Faywood-----	0-7	6.5-14	---	5.1-7.8	0
	7-29	14-26	---	5.1-7.8	0
	29-33	---	---	---	---
FaD:					
Faywood-----	0-7	6.5-14	---	5.1-7.8	0
	7-29	14-26	---	5.1-7.8	0
	29-33	---	---	---	---
FeC3:					
Faywood-----	0-2	6.5-14	---	5.1-7.8	0
	2-33	14-26	---	5.1-7.8	0
	33-37	---	---	---	---
FeD3:					
Faywood-----	0-2	6.5-14	---	5.1-7.8	0
	2-33	14-26	---	5.1-7.8	0
	33-37	---	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
<b>FsF:</b>					
Faywood-----	0-7	6.5-14	---	5.1-7.8	0
	7-29	14-26	---	5.1-7.8	0
	29-33	---	---	---	---
Shrouds-----	0-2	6.4-14	---	5.1-8.4	0
	2-20	20-31	---	5.1-8.4	0
	20-35	20-31	---	6.6-8.4	0
	35-45	---	---	---	---
Beasley-----	0-6	6.4-14	---	4.5-7.3	0-1
	6-48	20-26	---	4.5-7.3	0-8
	48-58	---	---	---	---
<b>GpD:</b>					
Gilpin-----	0-12	---	2.8-7.4	3.6-5.5	0
	12-23	---	2.9-17	3.6-5.5	0
	23-31	---	2.9-13	3.6-5.5	0
	31-35	---	---	---	---
<b>GwF:</b>					
Gilpin-----	0-12	---	2.8-7.4	3.6-5.5	0
	12-23	---	2.9-17	3.6-5.5	0
	23-31	---	2.9-13	3.6-5.5	0
	31-35	---	---	---	---
Weikert-----	0-4	---	2.9-8.0	4.5-6.0	0
	4-18	---	1.9-13	4.5-6.0	0
	18-28	---	---	---	---
<b>Ha:</b>					
Huntington-----	0-22	6.6-14	---	5.6-7.8	0
	22-59	6.1-18	---	5.6-7.8	0
	59-94	6.1-18	---	5.6-7.8	0
<b>Hf:</b>					
Huntington-----	0-22	6.6-14	---	5.6-7.8	0
	22-59	6.1-18	---	5.6-7.8	0
	59-94	6.1-18	---	5.6-7.8	0
<b>LaA:</b>					
Lawrence-----	0-10	4.4-9.6	---	4.5-6.5	0
	10-27	4.1-12	---	4.5-6.5	0
	27-44	---	2.3-8.2	4.5-5.5	0
	44-80	4.1-21	---	4.5-7.3	0
<b>LaB:</b>					
Lawrence-----	0-10	4.4-9.6	---	4.5-6.5	0
	10-27	4.1-12	---	4.5-6.5	0
	27-44	---	2.3-8.2	4.5-5.5	0
	44-80	4.1-21	---	4.5-7.3	0
<b>LbA:</b>					
Lawrence-----	0-10	4.4-9.6	---	4.5-6.5	0
	10-27	4.1-12	---	4.5-6.5	0
	27-44	---	2.3-8.2	4.5-5.5	0
	44-80	4.1-21	---	4.5-7.3	0

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
<b>LbB:</b>					
Lawrence-----	0-10	4.4-9.6	---	4.5-6.5	0
	10-27	4.1-12	---	4.5-6.5	0
	27-44	---	2.3-8.2	4.5-5.5	0
	44-80	4.1-21	---	4.5-7.3	0
<b>Ld:</b>					
Lindside-----	0-16	6.5-14	---	5.1-7.8	0
	16-52	6.1-18	---	5.1-7.8	0
	52-90	5.1-18	---	5.6-7.8	0
<b>Ln:</b>					
Lindside-----	0-16	6.5-14	---	5.1-7.8	0
	16-52	6.1-18	---	5.1-7.8	0
	52-90	5.1-18	---	5.6-7.8	0
<b>Me:</b>					
Melvin-----	0-4	6.4-14	---	5.6-7.8	0
	4-56	6.4-18	---	5.6-7.8	0
	56-82	5.3-18	---	5.6-7.8	0
<b>Mf:</b>					
Melvin-----	0-4	6.4-14	---	5.6-7.8	0
	4-56	6.4-18	---	5.6-7.8	0
	56-82	5.3-18	---	5.6-7.8	0
<b>Ne:</b>					
Newark-----	0-6	6.5-14	---	5.6-7.8	0
	6-41	6.1-18	---	5.6-7.8	0
	41-98	6.1-18	---	5.6-7.8	0
<b>Nf:</b>					
Newark-----	0-6	6.5-14	---	5.6-7.8	0
	6-41	6.1-18	---	5.6-7.8	0
	41-98	6.1-18	---	5.6-7.8	0
<b>NnA:</b>					
Nicholson-----	0-7	6.5-14	---	4.5-6.5	0
	7-27	6.1-18	---	4.5-6.5	0
	27-59	6.1-18	---	4.5-6.5	0
	59-74	6.1-26	---	4.5-6.5	0
	74-87	20-31	---	5.1-7.8	0
<b>NnB:</b>					
Nicholson-----	0-7	6.5-14	---	4.5-6.5	0
	7-27	6.1-18	---	4.5-6.5	0
	27-59	6.1-18	---	4.5-6.5	0
	59-74	6.1-26	---	4.5-6.5	0
	74-87	20-31	---	5.1-7.8	0
<b>NnC:</b>					
Nicholson-----	0-7	6.5-14	---	4.5-6.5	0
	7-27	6.1-18	---	4.5-6.5	0
	27-59	6.1-18	---	4.5-6.5	0
	59-74	6.1-26	---	4.5-6.5	0
	74-87	20-31	---	5.1-7.8	0
<b>No:</b>					
Nolin-----	0-10	6.5-14	---	5.6-8.4	0
	10-82	6.4-18	---	5.6-8.4	0
	82-101	5.3-18	---	5.1-8.4	0

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
OtA:					
Otwood-----	0-10	6.4-14	---	4.5-7.3	0
	10-27	---	3.6-17	4.5-5.5	0
	27-46	---	3.6-17	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
OtB:					
Otwood-----	0-10	6.4-14	---	4.5-7.3	0
	10-27	---	3.6-18	4.5-5.5	0
	27-46	---	3.6-18	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
OtC:					
Otwood-----	0-10	6.4-14	---	4.5-7.3	0
	10-27	---	3.6-18	4.5-5.5	0
	27-46	---	3.6-18	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
OwA:					
Otwood-----	0-10	6.4-14	---	4.5-7.3	0
	10-27	---	3.6-18	4.5-5.5	0
	27-46	---	3.6-18	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
OwB:					
Otwood-----	0-10	6.4-14	---	4.5-7.3	0
	10-27	---	3.6-18	4.5-5.5	0
	27-46	---	3.6-18	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
OwC:					
Otwood-----	0-10	6.4-14	---	4.5-7.3	0
	10-27	---	3.6-18	4.5-5.5	0
	27-46	---	3.6-18	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
Pa:					
Patton-----	0-11	10-22	---	6.6-7.3	0
	11-48	21-31	---	6.1-7.8	0
	48-85	9.9-31	---	7.4-8.4	0
Pt. Pits, quarries					
RoA:					
Robertsville-----	0-10	---	2.0-4.9	3.6-5.5	0
	10-16	---	2.3-8.2	3.6-5.5	0
	16-74	---	2.3-8.2	3.6-5.5	0
	74-90	2.4-14	---	4.5-7.3	0
RpA:					
Robertsville-----	0-10	---	2.0-4.9	3.6-5.5	0
	10-16	---	2.3-8.2	3.6-5.5	0
	16-74	---	2.3-8.2	3.6-5.5	0
	74-90	2.4-14	---	4.5-7.3	0

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
<b>SaB:</b>					
Sandview-----	0-10	---	2.8-8.0	4.5-6.0	0
	10-41	6.1-18	---	4.5-7.3	0
	41-82	20-31	---	5.1-7.8	0
<b>SaC:</b>					
Sandview-----	0-10	---	2.8-8.0	4.5-6.0	0
	10-41	6.1-18	---	4.5-7.3	0
	41-82	20-31	---	5.1-7.8	0
<b>ScA:</b>					
Sciotoville-----	0-10	6.5-14	---	4.5-7.3	0
	10-18	---	3.6-17	4.5-5.5	0
	18-77	---	4.0-17	4.5-5.5	0
	77-100	3.6-21	---	5.1-6.5	0
<b>ScB:</b>					
Sciotoville-----	0-10	6.5-14	---	4.5-7.3	0
	10-18	---	3.6-18	4.5-5.5	0
	18-77	---	4.0-18	4.5-5.5	0
	77-100	3.6-21	---	5.1-6.5	0
<b>ScC:</b>					
Sciotoville-----	0-10	6.5-14	---	4.5-7.3	0
	10-18	---	3.6-18	4.5-5.5	0
	18-77	---	4.0-18	4.5-5.5	0
	77-100	3.6-21	---	5.1-6.5	0
<b>SdA:</b>					
Sciotoville-----	0-10	6.5-14	---	4.5-7.3	0
	10-18	---	3.6-18	4.5-5.5	0
	18-77	---	4.0-18	4.5-5.5	0
	77-100	3.6-21	---	5.1-6.5	0
<b>SdB:</b>					
Sciotoville-----	0-10	6.5-14	---	4.5-7.3	0
	10-18	---	3.6-18	4.5-5.5	0
	18-77	---	4.0-18	4.5-5.5	0
	77-100	3.6-21	---	5.1-6.5	0
<b>ShC3:</b>					
Shrouts-----	0-2	6.4-14	---	5.1-8.4	0
	2-20	20-31	---	5.1-8.4	0
	20-35	20-31	---	6.6-8.4	0
	35-45	---	---	---	---
<b>ShD3:</b>					
Shrouts-----	0-2	6.4-14	---	5.1-8.4	0
	2-20	20-31	---	5.1-8.4	0
	20-35	20-31	---	6.6-8.4	0
	35-45	---	---	---	---
<b>TjB:</b>					
Tilsit-----	0-5	---	1.3-4.9	3.5-5.5	0
	5-32	---	1.9-8.2	3.5-5.5	0
	32-60	---	1.9-8.2	3.5-5.5	0
	60-85	---	2.3-9.7	3.6-5.5	0

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
TjC:					
Tilsit-----	0-5	---	1.3-4.9	3.5-5.5	0
	5-32	---	1.9-8.2	3.5-5.5	0
	32-60	---	1.9-8.2	3.5-5.5	0
	60-85	---	2.3-9.7	3.6-5.5	0
TjD:					
Tilsit-----	0-5	---	1.3-4.9	3.5-5.5	0
	5-32	---	1.9-8.2	3.5-5.5	0
	32-60	---	1.9-8.2	3.5-5.5	0
	60-85	---	2.3-9.7	3.6-5.5	0
Ua.					
Urban land.					
UabC:					
Urban land.					
Haplic Udarents-----	0-30	6.1-18	---	6.1-8.4	0
	30-34	---	---	---	---
Boonewood-----	0-6	6.6-14	---	6.1-8.4	0
	6-23	6.1-18	---	6.1-8.4	0
	23-30	6.1-18	---	6.1-8.4	0
	30-34	---	---	---	---
UacB:					
Urban land.					
Haplic Udarents-----	0-77	2.7-9.8	---	5.6-7.3	0
	77-102	2.7-15	---	5.6-7.3	0
Combs-----	0-14	3.8-14	---	5.6-7.3	0
	14-77	2.7-9.8	---	5.6-7.3	0
	77-102	2.7-15	---	5.6-7.3	0
UadB:					
Urban land.					
Haplic Udarents-----	0-56	6.4-18	---	5.6-7.8	0
	56-82	5.3-18	---	5.6-7.8	0
Melvin-----	0-4	6.4-14	---	5.6-7.8	0
	4-56	6.4-18	---	5.6-7.8	0
	56-82	5.3-18	---	5.6-7.8	0
UaeB:					
Urban land.					
Haplic Udarents-----	0-41	6.1-18	---	5.6-7.8	0
	41-98	6.1-18	---	5.6-7.8	0
Newark-----	0-6	6.5-14	---	5.6-7.8	0
	6-41	6.1-18	---	5.6-7.8	0
	41-98	6.1-18	---	5.6-7.8	0



# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
UafC: Urban land.					
Haplic Udarents-----	0-55	21-32	---	5.6-7.3	0
	55-85	21-32	---	6.6-8.4	0
Zipp-----	0-11	21-27	---	5.6-7.3	0
	11-55	21-32	---	5.6-7.3	0
	55-85	21-32	---	6.6-8.4	0
UagB: Urban land.					
Udarents-----	0-50	6.1-18	---	6.1-8.4	0
	50-54	---	---	---	---
UahC. Urban land-Udorthents					
UaiC. Urban land-Udorthents					
UajF. Urban land-Udorthents					
UakF. Urban land-Udorthents					
UamC: Urban land.					
Ultic Udarents-----	0-32	---	1.9-8.2	3.5-5.5	0
	32-60	---	1.9-8.2	3.5-5.5	0
	60-85	---	2.3-9.7	3.6-5.5	0
Tilsit-----	0-5	---	1.3-4.9	3.5-5.5	0
	5-32	---	1.9-8.2	3.5-5.5	0
	32-60	---	1.9-8.2	3.5-5.5	0
	60-85	---	2.3-9.7	3.6-5.5	0
UbC: Urban land.					
Alfic Udarents-----	0-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
UbD: Urban land.					
Alfic Udarents-----	0-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
UcC: Urban land.					
Alfic Udarents-----	0-49	---	1.9-18	5.1-6.0	0
	49-65	---	1.3-8.4	5.1-6.0	0
	65-69	---	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
UcF: Urban land.					
Alfic Udarents-----	0-49	---	1.9-18	5.1-6.0	0
	49-65	---	1.3-8.4	5.1-6.0	0
	65-69	---	---	---	---
UdC: Urban land.					
Alfic Udarents-----	0-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
UeC: Urban land.					
Alfic Udarents-----	0-20	---	3.1-12	4.5-5.5	0
	20-41	---	3.6-18	4.5-5.5	0
	41-52	---	2.9-21	4.5-5.5	0
	52-82	---	3.2-21	4.5-6.0	0
UfC: Urban land.					
Alfic Udarents-----	0-20	---	3.1-12	4.5-5.5	0
	20-41	---	3.6-18	4.5-5.5	0
	41-52	---	2.9-21	4.5-5.5	0
	52-82	---	3.2-21	4.5-6.0	0
UgC: Urban land.					
Alfic Udarents-----	0-27	---	1.9-8.2	3.5-5.5	0
	27-50	---	1.9-8.2	3.5-5.5	0
	50-58	20-26	---	4.5-7.3	0-8
	58-68	---	---	---	---
UhC: Urban land.					
Alfic Udarents-----	0-27	6.1-18	---	4.5-6.5	0
	27-59	6.1-18	---	4.5-6.5	0
	59-74	6.1-26	---	4.5-6.5	0
	74-87	20-31	---	5.1-7.8	0
	87-91	---	---	---	---
UiC: Urban land.					
Alfic Udarents-----	0-48	20-26	---	4.5-7.3	0-8
	48-58	---	---	---	---
UiD: Urban land.					
Alfic Udarents-----	0-48	20-26	---	4.5-7.3	0-8
	48-58	---	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
UiF: Urban land.					
Ultic Udarents-----	0-36	---	5.9-18	4.5-5.5	0
	36-51	---	5.9-13	5.0-6.5	0
	51-70	---	5.3-12	4.5-6.0	0
	70-80	---	---	---	---
UjC: Urban land.					
Alfic Udarents-----	0-24	6.1-18	---	5.1-7.3	0
	24-50	14-26	---	4.5-6.5	0
	50-70	14-31	---	4.5-7.3	0
	70-74	---	---	---	---
UjD: Urban land.					
Alfic Udarents-----	0-24	6.1-18	---	5.1-7.3	0
	24-50	14-26	---	4.5-6.5	0
	50-70	14-31	---	4.5-7.3	0
	70-74	---	---	---	---
UjF: Urban land.					
Alfic Udarents-----	0-24	6.1-18	---	5.1-7.3	0
	24-50	14-26	---	4.5-6.5	0
	50-70	14-31	---	4.5-7.3	0
	70-74	---	---	---	---
UkC: Urban land.					
Alfic Udarents-----	0-48	20-26	---	4.5-7.3	0-8
	48-58	---	---	---	---
Beasley-----	0-6	6.4-14	---	4.5-7.3	0-1
	6-48	21-26	---	4.5-7.3	0-8
	48-58	---	---	---	---
U1C: Urban land.					
Alfic Udarents-----	0-30	14-31	---	4.5-7.3	0
	30-34	---	---	---	---
Caneyville-----	0-2	6.5-14	---	4.5-7.3	0
	2-30	14-31	---	4.5-7.3	0
	30-34	---	---	---	---
U1D: Urban land.					
Alfic Udarents-----	0-30	14-31	---	4.5-7.3	0
	30-34	---	---	---	---
Caneyville-----	0-2	6.5-14	---	4.5-7.3	0
	2-30	14-31	---	4.5-7.3	0
	30-34	---	---	---	---

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
UmC: Urban land.					
Alfic Udarents-----	0-24	6.1-18	---	5.1-7.3	0
	24-100	14-26	---	4.5-6.5	0
Crider-----	0-7	6.5-14	---	5.1-7.3	0
	7-24	6.1-18	---	5.1-7.3	0
	24-100	14-26	---	4.5-6.5	0
UmD: Urban land.					
Alfic Udarents-----	0-24	6.1-18	---	5.1-7.3	0
	24-100	14-26	---	4.5-6.5	0
Crider-----	0-7	6.5-14	---	5.1-7.3	0
	7-24	6.1-18	---	5.1-7.3	0
	24-100	14-26	---	4.5-6.5	0
UnC: Urban land.					
Alfic Udarents-----	0-36	6.4-18	---	4.5-6.5	0
	36-69	6.4-20	---	4.5-6.5	0
	69-87	6.1-20	---	4.5-6.5	0
Elk-----	0-12	6.4-14	---	4.5-6.5	0
	12-36	6.4-18	---	4.5-6.5	0
	36-69	6.4-20	---	4.5-6.5	0
	69-87	6.1-20	---	4.5-6.5	0
UoC: Urban land.					
Alfic Udarents-----	0-27	4.1-12	---	4.5-6.5	0
	27-46	---	2.3-8.2	4.5-5.5	0
	46-80	4.1-21	---	4.5-7.3	0
Lawrence-----	0-10	4.4-9.6	---	4.5-6.5	0
	10-27	4.1-12	---	4.5-6.5	0
	27-44	---	2.3-8.2	4.5-5.5	0
	44-80	4.1-21	---	4.5-7.3	0
UpC: Urban land.					
Alfic Udarents-----	0-27	4.1-12	---	4.5-6.5	0
	27-46	---	2.3-8.2	4.5-5.5	0
	46-80	4.1-21	---	4.5-7.3	0
Lawrence-----	0-10	4.4-9.6	---	4.5-6.5	0
	10-27	4.1-12	---	4.5-6.5	0
	27-44	---	2.3-8.2	4.5-5.5	0
	44-80	4.1-21	---	4.5-7.3	0

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
UqC: Urban land.					
Alfic Udarents-----	0-27	6.1-18	---	4.5-6.5	0
	27-59	6.1-18	---	4.5-6.5	0
	59-74	6.1-26	---	4.5-6.5	0
	74-87	20-31	---	5.1-7.8	0
Nicholson-----	0-7	6.5-14	---	4.5-6.5	0
	7-27	6.1-18	---	4.5-6.5	0
	27-59	6.1-18	---	4.5-6.5	0
	59-74	6.1-26	---	4.5-6.5	0
	74-87	20-31	---	5.1-7.8	0
UrC: Urban land.					
Alfic Udarents-----	0-27	---	3.6-18	4.5-5.5	0
	27-46	---	3.6-18	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
Otwood-----	0-10	6.4-14	---	4.5-7.3	0
	10-27	---	3.6-18	4.5-5.5	0
	27-46	---	3.6-18	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
UsC: Urban land.					
Alfic Udarents-----	0-27	---	3.6-18	4.5-5.5	0
	27-46	---	3.6-18	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
Otwood-----	0-10	6.4-14	---	4.5-7.3	0
	10-27	---	3.6-18	4.5-5.5	0
	27-46	---	3.6-18	4.5-5.5	0
	46-83	5.1-18	---	5.1-6.5	0
	83-91	0.0-22	---	5.1-8.4	0-20
UtC: Urban land.					
Alfic Udarents-----	0-16	---	2.3-8.2	3.6-5.5	0
	16-74	---	2.3-8.2	3.6-5.5	0
	74-90	2.4-14	---	4.5-7.3	0
Robertsville-----	0-10	---	2.0-4.9	3.6-5.5	0
	10-16	---	2.3-8.2	3.6-5.5	0
	16-74	---	2.3-8.2	3.6-5.5	0
	74-90	2.4-14	---	4.5-7.3	0
UuC: Urban land.					
Alfic Udarents-----	0-41	6.1-18	---	4.5-7.3	0
	41-82	20-31	---	5.1-7.8	0

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
UuC:					
Sandview-----	0-10	---	2.8-8.0	4.5-6.0	0
	10-41	6.1-18	---	4.5-7.3	0
	41-82	20-31	---	5.1-7.8	0
UvC:					
Urban land.					
Alfic Udarents-----	0-18	---	3.6-18	4.5-5.5	0
	18-77	---	4.0-18	4.5-5.5	0
	77-100	3.6-21	---	5.1-6.5	0
Sciotoville-----	0-10	6.5-14	---	4.5-7.3	0
	10-18	---	3.6-18	4.5-5.5	0
	18-77	---	4.0-18	4.5-5.5	0
	77-100	3.6-21	---	5.1-6.5	0
UwC:					
Urban land.					
Alfic Udarents-----	0-20	20-31	---	5.1-8.4	0
	20-35	20-31	---	6.6-8.4	0
	35-45	---	---	---	---
Shrouts-----	0-2	6.4-14	---	5.1-8.4	0
	2-20	20-31	---	5.1-8.4	0
	20-35	20-31	---	6.6-8.4	0
	35-45	---	---	---	---
UwD:					
Urban land.					
Alfic Udarents-----	0-20	20-31	---	5.1-8.4	0
	20-35	20-31	---	6.6-8.4	0
	35-45	---	---	---	---
Shrouts-----	0-2	6.4-14	---	5.1-8.4	0
	2-20	20-31	---	5.1-8.4	0
	20-35	20-31	---	6.6-8.4	0
	35-45	---	---	---	---
UxC:					
Urban land.					
Alfic Udarents-----	0-20	---	3.1-12	4.5-5.5	0
	20-41	---	3.6-18	4.5-5.5	0
	41-52	---	2.9-21	4.5-5.5	0
	52-82	---	3.2-21	4.5-6.0	0
Weinbach-----	0-12	6.5-14	---	4.5-7.3	0
	12-20	---	3.1-12	4.5-5.5	0
	20-41	---	3.6-18	4.5-5.5	0
	41-52	---	2.9-21	4.5-5.5	0
	52-82	---	3.2-21	4.5-6.0	0

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
UyC: Urban land.					
Alfic Udarents-----	0-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
UyD: Urban land.					
Alfic Udarents-----	0-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
UzC: Urban land-----	---	---	---	---	---
Alfic Udarents-----	0-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
W. Water					
WeA: Weinbach-----	0-12	6.5-14	---	4.5-7.3	0
	12-20	---	3.1-12	4.5-5.5	0
	20-41	---	3.6-17	4.5-5.5	0
	41-52	---	2.9-21	4.5-5.5	0
	52-82	---	3.2-21	4.5-6.0	0
WeB: Weinbach-----	0-12	6.5-14	---	4.5-7.3	0
	12-20	---	3.1-12	4.5-5.5	0
	20-41	---	3.6-18	4.5-5.5	0
	41-52	---	2.9-21	4.5-5.5	0
	52-82	---	3.2-21	4.5-6.0	0
WfA: Weinbach-----	0-12	6.5-14	---	4.5-7.3	0
	12-20	---	3.1-12	4.5-5.5	0
	20-41	---	3.6-18	4.5-5.5	0
	41-52	---	2.9-21	4.5-5.5	0
	52-82	---	3.2-21	4.5-6.0	0
WfB: Weinbach-----	0-12	6.5-14	---	4.5-7.3	0
	12-20	---	3.1-12	4.5-5.5	0
	20-41	---	3.6-18	4.5-5.5	0
	41-52	---	2.9-21	4.5-5.5	0
	52-82	---	3.2-21	4.5-6.0	0

# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	Inches	meq/100 g	meq/100 g	pH	Pct
WhA:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WhB:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WhC:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WhD:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WhF:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WkA:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WkB:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WkC:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WkD:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WkF:					
Wheeling-----	0-6	---	1.6-8.0	5.1-6.0	0
	6-49	---	1.9-18	5.1-6.0	0
	49-85	---	1.3-8.4	5.1-6.0	0
WoA:					
Woolper-----	0-13	6.6-14	---	6.1-7.8	0
	13-69	14-31	---	6.1-7.8	0
	69-101	14-31	---	6.1-7.8	0
WoB:					
Woolper-----	0-13	6.6-14	---	6.1-7.8	0
	13-69	14-31	---	6.1-7.8	0
	69-101	14-31	---	6.1-7.8	0



# Soil Survey of Jefferson County, Kentucky

Table 19.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate
	<u>Inches</u>	<u>meq/100 g</u>	<u>meq/100 g</u>	<u>pH</u>	<u>Pct</u>
WoC:					
Woolper-----	0-13	6.6-14	---	6.1-7.8	0
	13-69	14-31	---	6.1-7.8	0
	69-101	14-31	---	6.1-7.8	0
ZpA:					
Zipp-----	0-11	21-27	---	5.6-7.3	0
	11-55	21-32	---	5.6-7.3	0
	55-85	21-32	---	6.6-8.4	0

Table 20.—Water Features

(Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated)

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	
Afb: Alford-----	B	Low		<u>Ft</u>		<u>Ft</u>					
			January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	
Afc: Alford-----	B	Medium		---		---					
			January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	

Soil Survey of Jefferson County, Kentucky

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
AfD: Alford-----	B	Medium		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
AfF: Alford-----	B	High		---	---	---	---	None	---	None
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
BeB: Beasley-----	C	High		---	---	---	---	None	---	None
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	
BeC: Beasley-----	C	Very high		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>					
			January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
December	---	---	---	---	None	---	None				
BeD: Beasley-----	C	Very high		---	---	---	---	None	---	None	
			January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
December	---	---	---	---	None	---	None				
Bo: Boonewood-----	B	Low		1.2-2.0	1.7-8.0	---	---	None	Brief	Occasional	
			January	1.2-2.0	1.7-8.0	---	---	None	Brief	Occasional	
			February	1.2-2.0	1.7-8.0	---	---	None	Brief	Occasional	
			March	1.2-2.0	1.7-8.0	---	---	None	Brief	Occasional	
			April	1.2-2.0	1.7-8.0	---	---	None	Brief	Occasional	
			May	1.2-2.0	1.7-8.0	---	---	None	Brief	Occasional	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	1.2-2.0	1.7-8.0	---	---	None	Brief	Occasional	
December	1.2-2.0	1.7-8.0	---	---	None	Brief	Occasional				

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	
CaB2: Caneyville-----	C	Low		<u>Ft</u>		<u>Ft</u>					
			January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	
CaC2: Caneyville-----	C	Medium	January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	
			CaD2: Caneyville-----	C	Medium	January	---	---	---	---	None
February	---	---				---	---	None	---	None	
March	---	---				---	---	None	---	None	
April	---	---				---	---	None	---	None	
May	---	---				---	---	None	---	None	
June	---	---				---	---	None	---	None	
July	---	---				---	---	None	---	None	
August	---	---				---	---	None	---	None	
September	---	---				---	---	None	---	None	
October	---	---				---	---	None	---	None	
November	---	---				---	---	None	---	None	
December	---	---				---	---	None	---	None	

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	
CcF2: Caneyville-----	C	High		<u>Ft</u>		<u>Ft</u>					
			January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	
Rock outcrop.  CeF: Carpenter-----	B	Medium									
			January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	
Cm. Cemeteries											

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
CnF: Chagrín-----	B	Medium		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	Brief	Frequent
			February	---	---	---	---	None	Brief	Frequent
			March	---	---	---	---	None	Brief	Frequent
			April	---	---	---	---	None	Brief	Frequent
			May	---	---	---	---	None	Brief	Frequent
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	Brief	Frequent
December	---	---	---	---	None	Brief	Frequent			
Nelse-----	B	Low								
			January	---	---	---	---	None	Brief	Frequent
			February	---	---	---	---	None	Brief	Frequent
			March	---	---	---	---	None	Brief	Frequent
			April	---	---	---	---	None	Brief	Frequent
			May	---	---	---	---	None	Brief	Frequent
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	Brief	Frequent
December	---	---	---	---	None	Brief	Frequent			
Wheeling-----	B	High								
			January	---	---	---	---	None	Brief	Frequent
			February	---	---	---	---	None	Brief	Frequent
			March	---	---	---	---	None	Brief	Frequent
			April	---	---	---	---	None	Brief	Frequent
			May	---	---	---	---	None	Brief	Frequent
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	Brief	Frequent
December	---	---	---	---	None	Brief	Frequent			

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
Co: Combs-----	B	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	3.5-5.8	>6.0	---	---	None	Brief	Occasional
			February	3.5-5.8	>6.0	---	---	None	Brief	Occasional
			March	3.5-5.8	>6.0	---	---	None	Brief	Occasional
			April	3.5-5.8	>6.0	---	---	None	Brief	Occasional
			May	3.5-5.8	>6.0	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.5-5.8	>6.0	---	---	None	Brief	Occasional
			December	3.5-5.8	>6.0	---	---	None	Brief	Occasional
CrA: Crider-----	B	Low		---	---	---	---	None	---	None
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
CrB: Crider-----	B	Low		---	---	---	---	None	---	None
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None



Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	
CrC: Crider-----	B	Medium		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>					
			January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	
CrD: Crider-----	B	Medium	January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	
			DAM. Dam, large								
Dp. Dumps, ash											

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
EkA: Elk-----	B	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	3.0-5.0	>6.0	---	---	None	---	None
			February	3.0-5.0	>6.0	---	---	None	---	None
			March	3.0-5.0	>6.0	---	---	None	---	None
			April	3.0-5.0	>6.0	---	---	None	---	None
			May	3.0-5.0	>6.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.0-5.0	>6.0	---	---	None	---	None
			December	3.0-5.0	>6.0	---	---	None	---	None
EkB: Elk-----	B	Low	January	3.0-5.0	>6.0	---	---	None	---	None
			February	3.0-5.0	>6.0	---	---	None	---	None
			March	3.0-5.0	>6.0	---	---	None	---	None
			April	3.0-5.0	>6.0	---	---	None	---	None
			May	3.0-5.0	>6.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.0-5.0	>6.0	---	---	None	---	None
			December	3.0-5.0	>6.0	---	---	None	---	None
EkC: Elk-----	B	Medium	January	3.0-5.0	>6.0	---	---	None	---	None
			February	3.0-5.0	>6.0	---	---	None	---	None
			March	3.0-5.0	>6.0	---	---	None	---	None
			April	3.0-5.0	>6.0	---	---	None	---	None
			May	3.0-5.0	>6.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.0-5.0	>6.0	---	---	None	---	None
			December	3.0-5.0	>6.0	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
EkD: Elk-----	B	Medium		<u>Ft</u>	<u>Ft</u>					
			January	3.0-5.0	>6.0	---	---	None	---	None
			February	3.0-5.0	>6.0	---	---	None	---	None
			March	3.0-5.0	>6.0	---	---	None	---	None
			April	3.0-5.0	>6.0	---	---	None	---	None
			May	3.0-5.0	>6.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.0-5.0	>6.0	---	---	None	---	None
December	3.0-5.0	>6.0	---	---	None	---	None			
EoA: Elk-----	B	Low	January	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			February	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			March	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			April	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			May	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			December	3.0-5.0	>6.0	---	---	None	Brief	Occasional
EoB: Elk-----	B	Low	January	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			January	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			February	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			March	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			April	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			May	3.0-5.0	>6.0	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.0-5.0	>6.0	---	---	None	Brief	Occasional
December	3.0-5.0	>6.0	---	---	None	Brief	Occasional			

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table			Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	Duration	Frequency
EOC: Elk-----	B	Medium		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>						
			January	3.0-5.0	>6.0	---	---	None	Brief	Occasional		
			February	3.0-5.0	>6.0	---	---	None	Brief	Occasional		
			March	3.0-5.0	>6.0	---	---	None	Brief	Occasional		
			April	3.0-5.0	>6.0	---	---	None	Brief	Occasional		
			May	3.0-5.0	>6.0	---	---	None	Brief	Occasional		
			June	---	---	---	---	None	---	None		
			July	---	---	---	---	None	---	None		
			August	---	---	---	---	None	---	None		
			September	---	---	---	---	None	---	None		
			October	---	---	---	---	None	---	None		
			November	3.0-5.0	>6.0	---	---	None	Brief	Occasional		
			December	3.0-5.0	>6.0	---	---	None	Brief	Occasional		
FaC: Faywood-----	C	Medium										
			January	---	---	---	---	None	---	None		
			February	---	---	---	---	None	---	None		
			March	---	---	---	---	None	---	None		
			April	---	---	---	---	None	---	None		
			May	---	---	---	---	None	---	None		
			June	---	---	---	---	None	---	None		
			July	---	---	---	---	None	---	None		
			August	---	---	---	---	None	---	None		
			September	---	---	---	---	None	---	None		
			October	---	---	---	---	None	---	None		
			November	---	---	---	---	None	---	None		
			December	---	---	---	---	None	---	None		
FaD: Faywood-----	C	Medium										
			January	---	---	---	---	None	---	None		
			February	---	---	---	---	None	---	None		
			March	---	---	---	---	None	---	None		
			April	---	---	---	---	None	---	None		
			May	---	---	---	---	None	---	None		
			June	---	---	---	---	None	---	None		
			July	---	---	---	---	None	---	None		
			August	---	---	---	---	None	---	None		
			September	---	---	---	---	None	---	None		
			October	---	---	---	---	None	---	None		
			November	---	---	---	---	None	---	None		
			December	---	---	---	---	None	---	None		

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	
FeC3: Faywood-----	C	High		<u>Ft</u>		<u>Ft</u>					
			January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
December	---	---	---	---	None	---	None				
FeD3: Faywood-----	C	High	January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	
FSF: Faywood-----	C	High	January	---	---	---	---	None	---	None	
			February	---	---	---	---	None	---	None	
			March	---	---	---	---	None	---	None	
			April	---	---	---	---	None	---	None	
			May	---	---	---	---	None	---	None	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	---	None	
			December	---	---	---	---	None	---	None	

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
Fsf: Shrouts-----	D	Very high		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
December	---	---	---	---	None	---	None			
Beasley-----	C	High	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
GpD: Gilpin-----	C	Medium	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
GwF: Gilpin-----	C	High		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
Weikert-----	B/D	Medium								
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
Ha: Huntington-----	B	Low								
			January	3.4-5.2	>6.0	---	---	None	Brief	Occasional
			February	3.4-5.2	>6.0	---	---	None	Brief	Occasional
			March	3.4-5.2	>6.0	---	---	None	Brief	Occasional
			April	3.4-5.2	>6.0	---	---	None	Brief	Occasional
			May	3.4-5.2	>6.0	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.4-5.2	>6.0	---	---	None	Brief	Occasional
			December	3.4-5.2	>6.0	---	---	None	Brief	Occasional

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
Hf: Huntington-----	B	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	3.4-5.2	>6.0	---	---	None	Brief	Frequent
			February	3.4-5.2	>6.0	---	---	None	Brief	Frequent
			March	3.4-5.2	>6.0	---	---	None	Brief	Frequent
			April	3.4-5.2	>6.0	---	---	None	Brief	Frequent
			May	3.4-5.2	>6.0	---	---	None	Brief	Frequent
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.4-5.2	>6.0	---	---	None	Brief	Frequent
			December	3.4-5.2	>6.0	---	---	None	Brief	Frequent
LaA: Lawrence-----	C	Low								
			January	1.0-2.1	1.5-2.7	---	---	None	---	None
			February	1.0-2.1	1.5-2.7	---	---	None	---	None
			March	1.0-2.1	1.5-2.7	---	---	None	---	None
			April	1.0-2.1	1.5-2.7	---	---	None	---	None
			May	1.0-2.1	1.5-2.7	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-2.1	1.5-2.7	---	---	None	---	None
			December	1.0-2.1	1.5-2.7	---	---	None	---	None
LaB: Lawrence-----	C	Low								
			January	1.0-2.1	1.5-2.7	---	---	None	---	None
			February	1.0-2.1	1.5-2.7	---	---	None	---	None
			March	1.0-2.1	1.5-2.7	---	---	None	---	None
			April	1.0-2.1	1.5-2.7	---	---	None	---	None
			May	1.0-2.1	1.5-2.7	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-2.1	1.5-2.7	---	---	None	---	None
			December	1.0-2.1	1.5-2.7	---	---	None	---	None



Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
LbA: Lawrence-----	C	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			February	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			March	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			April	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			May	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			December	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
LbB: Lawrence-----	C	Low								
			January	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			February	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			March	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			April	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			May	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
			December	1.0-2.1	1.5-2.7	---	---	None	Brief	Occasional
Ld: Lindside-----	C	Low								
			January	1.5-3.0	>6.0	---	---	None	Brief	Occasional
			February	1.5-3.0	>6.0	---	---	None	Brief	Occasional
			March	1.5-3.0	>6.0	---	---	None	Brief	Occasional
			April	1.5-3.0	>6.0	---	---	None	Brief	Occasional
			May	1.5-3.0	>6.0	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.5-3.0	>6.0	---	---	None	Brief	Occasional
			December	1.5-3.0	>6.0	---	---	None	Brief	Occasional

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
Ln: Lindside-----	C	Low	January	1.5-3.0	>6.0	---	---	None	Brief	Frequent
			February	1.5-3.0	>6.0	---	---	None	Brief	Frequent
			March	1.5-3.0	>6.0	---	---	None	Brief	Frequent
			April	1.5-3.0	>6.0	---	---	None	Brief	Frequent
			May	1.5-3.0	>6.0	---	---	None	Brief	Frequent
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.5-3.0	>6.0	---	---	None	Brief	Frequent
			December	1.5-3.0	>6.0	---	---	None	Brief	Frequent
Me: Melvin-----	D	Low	January	0.0-0.8	>6.0	---	---	None	Brief	Occasional
			February	0.0-0.8	>6.0	---	---	None	Brief	Occasional
			March	0.0-0.8	>6.0	---	---	None	Brief	Occasional
			April	0.0-0.8	>6.0	---	---	None	Brief	Occasional
			May	0.0-0.8	>6.0	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-0.8	>6.0	---	---	None	Brief	Occasional
			December	0.0-0.8	>6.0	---	---	None	Brief	Occasional
Mf: Melvin-----	D	Low	January	0.0-0.8	>6.0	---	---	None	Brief	Frequent
			February	0.0-0.8	>6.0	---	---	None	Brief	Frequent
			March	0.0-0.8	>6.0	---	---	None	Brief	Frequent
			April	0.0-0.8	>6.0	---	---	None	Brief	Frequent
			May	0.0-0.8	>6.0	---	---	None	Brief	Frequent
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-0.8	>6.0	---	---	None	Brief	Frequent
			December	0.0-0.8	>6.0	---	---	None	Brief	Frequent

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
Ne: Newark-----	C	Low		<u>Ft</u>		<u>Ft</u>				
			January	1.0-1.5	>6.0	---	---	None	Brief	Occasional
			February	1.0-1.5	>6.0	---	---	None	Brief	Occasional
			March	1.0-1.5	>6.0	---	---	None	Brief	Occasional
			April	1.0-1.5	>6.0	---	---	None	Brief	Occasional
			May	1.0-1.5	>6.0	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.5	>6.0	---	---	None	Brief	Occasional
December	1.0-1.5	>6.0	---	---	None	Brief	Occasional			
Nf: Newark-----	C	Low	January	1.0-1.5	>6.0	---	---	None	Brief	Frequent
			February	1.0-1.5	>6.0	---	---	None	Brief	Frequent
			March	1.0-1.5	>6.0	---	---	None	Brief	Frequent
			April	1.0-1.5	>6.0	---	---	None	Brief	Frequent
			May	1.0-1.5	>6.0	---	---	None	Brief	Frequent
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.5	>6.0	---	---	None	Brief	Frequent
			December	1.0-1.5	>6.0	---	---	None	Brief	Frequent
NnA: Nicholson-----	C	Low	January	1.5-2.5	2.0-3.0	---	---	None	---	None
			February	1.5-2.5	2.0-3.0	---	---	None	---	None
			March	1.5-2.5	2.0-3.0	---	---	None	---	None
			April	1.5-2.5	2.0-3.0	---	---	None	---	None
			May	1.5-2.5	2.0-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.5-2.5	2.0-3.0	---	---	None	---	None
			December	1.5-2.5	2.0-3.0	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
NbB: Nicholson-----	C	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	1.5-2.5	2.0-3.0	---	---	None	---	None
			February	1.5-2.5	2.0-3.0	---	---	None	---	None
			March	1.5-2.5	2.0-3.0	---	---	None	---	None
			April	1.5-2.5	2.0-3.0	---	---	None	---	None
			May	1.5-2.5	2.0-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.5-2.5	2.0-3.0	---	---	None	---	None
			December	1.5-2.5	2.0-3.0	---	---	None	---	None
NnC: Nicholson-----	C	Medium								
			January	1.5-2.5	2.0-3.0	---	---	None	---	None
			February	1.5-2.5	2.0-3.0	---	---	None	---	None
			March	1.5-2.5	2.0-3.0	---	---	None	---	None
			April	1.5-2.5	2.0-3.0	---	---	None	---	None
			May	1.5-2.5	2.0-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.5-2.5	2.0-3.0	---	---	None	---	None
			December	1.5-2.5	2.0-3.0	---	---	None	---	None
No: Nolin-----	B	Low								
			January	---	---	---	---	None	Brief	Occasional
			February	---	---	---	---	None	Brief	Occasional
			March	---	---	---	---	None	Brief	Occasional
			April	---	---	---	---	None	Brief	Occasional
			May	---	---	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	Brief	Occasional
			December	---	---	---	---	None	Brief	Occasional

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
OtA: Otwood-----	C	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	1.2-2.5	1.7-3.0	---	---	None	---	None
			February	1.2-2.5	1.7-3.0	---	---	None	---	None
			March	1.2-2.5	1.7-3.0	---	---	None	---	None
			April	1.2-2.5	1.7-3.0	---	---	None	---	None
			May	1.2-2.5	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.2-2.5	1.7-3.0	---	---	None	---	None
			December	1.2-2.5	1.7-3.0	---	---	None	---	None
OtB: Otwood-----	C	Low								
			January	1.2-2.5	1.7-3.0	---	---	None	---	None
			February	1.2-2.5	1.7-3.0	---	---	None	---	None
			March	1.2-2.5	1.7-3.0	---	---	None	---	None
			April	1.2-2.5	1.7-3.0	---	---	None	---	None
			May	1.2-2.5	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.2-2.5	1.7-3.0	---	---	None	---	None
			December	1.2-2.5	1.7-3.0	---	---	None	---	None
OtC: Otwood-----	C	Medium								
			January	1.2-2.5	1.7-3.0	---	---	None	---	None
			February	1.2-2.5	1.7-3.0	---	---	None	---	None
			March	1.2-2.5	1.7-3.0	---	---	None	---	None
			April	1.2-2.5	1.7-3.0	---	---	None	---	None
			May	1.2-2.5	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.2-2.5	1.7-3.0	---	---	None	---	None
			December	1.2-2.5	1.7-3.0	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding		
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency	
OwA: Otwood-----	C	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>					
			January	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			February	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			March	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			April	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			May	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			June	---	---	---			None	---	None
			July	---	---	---			None	---	None
			August	---	---	---			None	---	None
			September	---	---	---			None	---	None
			October	---	---	---			None	---	None
			November	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
December	1.2-2.5	1.7-3.0	---			None	Brief	Occasional			
OwB: Otwood-----	C	Low	January	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			February	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			March	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			April	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			May	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			June	---	---	---			None	---	None
			July	---	---	---			None	---	None
			August	---	---	---			None	---	None
			September	---	---	---			None	---	None
			October	---	---	---			None	---	None
			November	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			December	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
OwC: Otwood-----	C	Medium	January	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			February	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			March	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			April	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			May	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			June	---	---	---			None	---	None
			July	---	---	---			None	---	None
			August	---	---	---			None	---	None
			September	---	---	---			None	---	None
			October	---	---	---			None	---	None
			November	1.2-2.5	1.7-3.0	---			None	Brief	Occasional
			December	1.2-2.5	1.7-3.0	---			None	Brief	Occasional

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding		Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
Pa: Patton-----	B/D	Negligible		<u>Ft</u>	<u>Ft</u>					
			January	0.0-1.0	>6.0	0.0-2.0	Brief	Occasional	---	None
			February	0.0-1.0	>6.0	0.0-2.0	Brief	Occasional	---	None
			March	0.0-1.0	>6.0	0.0-2.0	Brief	Occasional	---	None
			April	0.0-1.0	>6.0	0.0-2.0	Brief	Occasional	---	None
			May	0.0-1.0	>6.0	0.0-2.0	Brief	Occasional	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-1.0	>6.0	0.0-2.0	Brief	Occasional	---	None
			December	0.0-1.0	>6.0	0.0-2.0	Brief	Occasional	---	None
Pt. Pits, quarries	D	Low								
			January	0.0-0.8	1.2-3.0	---	---	None	---	None
			February	0.0-0.8	1.2-3.0	---	---	None	---	None
			March	0.0-0.8	1.2-3.0	---	---	None	---	None
			April	0.0-0.8	1.2-3.0	---	---	None	---	None
			May	0.0-0.8	1.2-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-0.8	1.2-3.0	---	---	None	---	None
			December	0.0-0.8	1.2-3.0	---	---	None	---	None
RpA: Robertsville-----	D	Negligible								
			January	0.0-0.8	1.2-3.0	0.0-2.0	Brief	Occasional	---	None
			February	0.0-0.8	1.2-3.0	0.0-2.0	Brief	Occasional	---	None
			March	0.0-0.8	1.2-3.0	0.0-2.0	Brief	Occasional	---	None
			April	0.0-0.8	1.2-3.0	0.0-2.0	Brief	Occasional	---	None
			May	0.0-0.8	1.2-3.0	0.0-2.0	Brief	Occasional	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-0.8	1.2-3.0	0.0-2.0	Brief	Occasional	---	None
			December	0.0-0.8	1.2-3.0	0.0-2.0	Brief	Occasional	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
SaB: Sandview-----	B	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
SaC: Sandview-----	B	Medium		---	---	---	---	None	---	None
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
ScA: Sciotoville-----	C	Low		1.0-1.7	1.5-3.0	---	---	None	---	None
			January	1.0-1.7	1.5-3.0	---	---	None	---	None
			February	1.0-1.7	1.5-3.0	---	---	None	---	None
			March	1.0-1.7	1.5-3.0	---	---	None	---	None
			April	1.0-1.7	1.5-3.0	---	---	None	---	None
			May	1.0-1.7	1.5-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.5-3.0	---	---	None	---	None
			December	1.0-1.7	1.5-3.0	---	---	None	---	None



Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding		Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
ScB: Sciotoville-----	C	Low		<u>Ft</u>	<u>Ft</u>					
			January	1.0-1.7	1.5-3.0	---		None	---	None
			February	1.0-1.7	1.5-3.0	---		None	---	None
			March	1.0-1.7	1.5-3.0	---		None	---	None
			April	1.0-1.7	1.5-3.0	---		None	---	None
			May	1.0-1.7	1.5-3.0	---		None	---	None
			June	---	---	---		None	---	None
			July	---	---	---		None	---	None
			August	---	---	---		None	---	None
			September	---	---	---		None	---	None
			October	---	---	---		None	---	None
			November	1.0-1.7	1.5-3.0	---		None	---	None
December	1.0-1.7	1.5-3.0	---		None	---	None			
ScC: Sciotoville-----	C	Medium	January	1.0-1.7	1.5-3.0	---		None	---	None
			February	1.0-1.7	1.5-3.0	---		None	---	None
			March	1.0-1.7	1.5-3.0	---		None	---	None
			April	1.0-1.7	1.5-3.0	---		None	---	None
			May	1.0-1.7	1.5-3.0	---		None	---	None
			June	---	---	---		None	---	None
			July	---	---	---		None	---	None
			August	---	---	---		None	---	None
			September	---	---	---		None	---	None
			October	---	---	---		None	---	None
			November	1.0-1.7	1.5-3.0	---		None	---	None
			December	1.0-1.7	1.5-3.0	---		None	---	None
SdA: Sciotoville-----	C	Low	January	1.0-1.7	1.5-3.2	---		None	Brief	Occasional
			February	1.0-1.7	1.5-3.2	---		None	Brief	Occasional
			March	1.0-1.7	1.5-3.2	---		None	Brief	Occasional
			April	1.0-1.7	1.5-3.2	---		None	Brief	Occasional
			May	1.0-1.7	1.5-3.2	---		None	Brief	Occasional
			June	---	---	---		None	---	None
			July	---	---	---		None	---	None
			August	---	---	---		None	---	None
			September	---	---	---		None	---	None
			October	---	---	---		None	---	None
			November	1.0-1.7	1.5-3.2	---		None	Brief	Occasional
			December	1.0-1.7	1.5-3.2	---		None	Brief	Occasional

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
SdB: Sciotoville-----	C	Low	January	1.0-1.7	1.5-3.2	---	---	None	Brief	Occasional
			February	1.0-1.7	1.5-3.2	---	---	None	Brief	Occasional
			March	1.0-1.7	1.5-3.2	---	---	None	Brief	Occasional
			April	1.0-1.7	1.5-3.2	---	---	None	Brief	Occasional
			May	1.0-1.7	1.5-3.2	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.5-3.2	---	---	None	Brief	Occasional
			December	1.0-1.7	1.5-3.2	---	---	None	Brief	Occasional
ShC3: Shrouts-----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
ShD3: Shrouts-----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table			Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>						
TjB: Tilsit-----	C	Low										
			January	1.5-2.5	2.0-3.0	---	---	None	---	None	---	None
			February	1.5-2.5	2.0-3.0	---	---	None	---	None	---	None
			March	1.5-2.5	2.0-3.0	---	---	None	---	None	---	None
			April	1.5-2.5	2.0-3.0	---	---	None	---	None	---	None
			May	1.5-2.5	2.0-3.0	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	1.5-2.5	2.0-3.0	---	---	None	---	None	---	None
			December	1.5-2.5	2.0-3.0	---	---	None	---	None	---	None
TjC: Tilsit-----	C	Medium										
			January	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			February	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			March	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			April	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			May	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			December	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
TjD: Tilsit-----	C	Medium										
			January	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			February	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			March	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			April	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			May	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
			December	1.5-2.5	1.5-2.7	---	---	None	---	None	---	None
Ua. Urban land												

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
UabC: Urban land.				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
Haplic Udarents----	D	Very high	January	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			February	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			March	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			April	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			May	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			December	1.2-2.0	1.7-8.0	---	---	None	---	Rare
Boonewood-----	B	Low	January	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			February	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			March	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			April	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			May	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			December	1.2-2.0	1.7-8.0	---	---	None	---	Rare
UacB: Urban land.										
Haplic Udarents----	D	Very high	January	3.5-5.8	>6.0	---	---	None	---	Rare
			February	3.5-5.8	>6.0	---	---	None	---	Rare
			March	3.5-5.8	>6.0	---	---	None	---	Rare
			April	3.5-5.8	>6.0	---	---	None	---	Rare
			May	3.5-5.8	>6.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.5-5.8	>6.0	---	---	None	---	Rare
			December	3.5-5.8	>6.0	---	---	None	---	Rare

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
UadB: Combs-----	B	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	3.5-5.8	>6.0	---	---	None	---	Rare
			February	3.5-5.8	>6.0	---	---	None	---	Rare
			March	3.5-5.8	>6.0	---	---	None	---	Rare
			April	3.5-5.8	>6.0	---	---	None	---	Rare
			May	3.5-5.8	>6.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.5-5.8	>6.0	---	---	None	---	Rare
			December	3.5-5.8	>6.0	---	---	None	---	Rare
UadB: Urban land. Haplic Udarents---	D	Very high								
			January	0.0-1.0	>6.0	---	---	None	---	Rare
			February	0.0-1.0	>6.0	---	---	None	---	Rare
			March	0.0-1.0	>6.0	---	---	None	---	Rare
			April	0.0-1.0	>6.0	---	---	None	---	Rare
			May	0.0-1.0	>6.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-1.0	>6.0	---	---	None	---	Rare
			December	0.0-1.0	>6.0	---	---	None	---	Rare
Melvin-----	D	Very low								
			January	0.0-0.8	>6.0	---	---	None	---	Rare
			February	0.0-0.8	>6.0	---	---	None	---	Rare
			March	0.0-0.8	>6.0	---	---	None	---	Rare
			April	0.0-0.8	>6.0	---	---	None	---	Rare
			May	0.0-0.8	>6.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-0.8	>6.0	---	---	None	---	Rare
			December	0.0-0.8	>6.0	---	---	None	---	Rare

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
UaeB: Urban land.  Haplic Udarents----	D	Very high	January	1.0-1.5	>6.0	---	---	None	---	Rare
			February	1.0-1.5	>6.0	---	---	None	---	Rare
			March	1.0-1.5	>6.0	---	---	None	---	Rare
			April	1.0-1.5	>6.0	---	---	None	---	Rare
			May	1.0-1.5	>6.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.5	>6.0	---	---	None	---	Rare
			December	1.0-1.5	>6.0	---	---	None	---	Rare
Newark-----	C	Very low	January	1.0-1.5	>6.0	---	---	None	---	Rare
			February	1.0-1.5	>6.0	---	---	None	---	Rare
			March	1.0-1.5	>6.0	---	---	None	---	Rare
			April	1.0-1.5	>6.0	---	---	None	---	Rare
			May	1.0-1.5	>6.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.5	>6.0	---	---	None	---	Rare
			December	1.0-1.5	>6.0	---	---	None	---	Rare
UafC: Urban land.  Haplic Udarents----	D	Very high	January	0.0-1.0	>6.0	---	---	None	---	None
			February	0.0-1.0	>6.0	---	---	None	---	None
			March	0.0-1.0	>6.0	---	---	None	---	None
			April	0.0-1.0	>6.0	---	---	None	---	None
			May	0.0-1.0	>6.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-1.0	>6.0	---	---	None	---	None
			December	0.0-1.0	>6.0	---	---	None	---	None

Table 20.--Water Features--Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
UafC: Zipp-----	D	Very low	January	Ft 0.0-0.8	Ft >6.0	Ft 0.0-2.0	Brief	Rare	---	None
			February	0.0-0.8	>6.0	0.0-2.0	Brief	Rare	---	None
			March	0.0-0.8	>6.0	0.0-2.0	Brief	Rare	---	None
			April	0.0-0.8	>6.0	0.0-2.0	Brief	Rare	---	None
			May	0.0-0.8	>6.0	0.0-2.0	Brief	Rare	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-0.8	>6.0	0.0-2.0	Brief	Rare	---	None
			December	0.0-0.8	>6.0	0.0-2.0	Brief	Rare	---	None
UagB: Urban land.										
Udarents-----	D	Very high	January	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			February	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			March	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			April	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			May	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.2-2.0	1.7-8.0	---	---	None	---	Rare
			December	1.2-2.0	1.7-8.0	---	---	None	---	Rare
UahC. Urban land- Udorthents										
UaiC. Urban land- Udorthents										
UajF. Urban land- Udorthents										
UakF. Urban land- Udorthents										

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding		
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency	
UamC: Urban land.  Ultic Udarents----	D	Very high		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>					
			January	1.5-2.5	2.0-3.0	---			None	---	None
			February	1.5-2.5	2.0-3.0	---			None	---	None
			March	1.5-2.5	2.0-3.0	---			None	---	None
			April	1.5-2.5	2.0-3.0	---			None	---	None
			May	1.5-2.5	2.0-3.0	---			None	---	None
			June	---	---	---			None	---	None
			July	---	---	---			None	---	None
			August	---	---	---			None	---	None
			September	---	---	---			None	---	None
			October	---	---	---			None	---	None
			November	1.5-2.5	2.0-3.0	---			None	---	None
			December	1.5-2.5	2.0-3.0	---			None	---	None
Tilsit-----	C	High	January	1.5-2.5	2.0-3.0	---			None	---	None
			February	1.5-2.5	2.0-3.0	---			None	---	None
			March	1.5-2.5	2.0-3.0	---			None	---	None
			April	1.5-2.5	2.0-3.0	---			None	---	None
			May	1.5-2.5	2.0-3.0	---			None	---	None
			June	---	---	---			None	---	None
			July	---	---	---			None	---	None
			August	---	---	---			None	---	None
			September	---	---	---			None	---	None
			October	---	---	---			None	---	None
			November	1.5-2.5	2.0-3.0	---			None	---	None
			December	1.5-2.5	2.0-3.0	---			None	---	None
			Ubc: Urban land.  Alfic Udarents----	D	Very high	January	---	---	---		
February	---	---				---			None	---	None
March	---	---				---			None	---	None
April	---	---				---			None	---	None
May	---	---				---			None	---	None
June	---	---				---			None	---	None
July	---	---				---			None	---	None
August	---	---				---			None	---	None
September	---	---				---			None	---	None
October	---	---				---			None	---	None
November	---	---				---			None	---	None
December	---	---				---			None	---	None



Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
Ubd: Urban land.										
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
UcC: Urban land.										
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UcF: Urban land.  Alfic Udarents----	D	Very high		<u>Ft</u>		<u>Ft</u>				
			January	---	---	---		None	---	None
			February	---	---	---		None	---	None
			March	---	---	---		None	---	None
			April	---	---	---		None	---	None
			May	---	---	---		None	---	None
			June	---	---	---		None	---	None
			July	---	---	---		None	---	None
			August	---	---	---		None	---	None
			September	---	---	---		None	---	None
			October	---	---	---		None	---	None
			November	---	---	---		None	---	None
			December	---	---	---		None	---	None
UdC: Urban land.  Alfic Udarents----	D	Very high								
			January	---	---	---		None	---	Rare
			February	---	---	---		None	---	Rare
			March	---	---	---		None	---	Rare
			April	---	---	---		None	---	Rare
			May	---	---	---		None	---	Rare
			June	---	---	---		None	---	None
			July	---	---	---		None	---	None
			August	---	---	---		None	---	None
			September	---	---	---		None	---	None
			October	---	---	---		None	---	None
			November	---	---	---		None	---	Rare
			December	---	---	---		None	---	Rare

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UeC: Urban land.				Ft	Ft	Ft				
Alfic Udarents----	D	Very high	January	1.0-1.7	1.7-3.0	---	---	None	---	None
			February	1.0-1.7	1.7-3.0	---	---	None	---	None
			March	1.0-1.7	1.7-3.0	---	---	None	---	None
			April	1.0-1.7	1.7-3.0	---	---	None	---	None
			May	1.0-1.7	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.7-3.0	---	---	None	---	None
			December	1.0-1.7	1.7-3.0	---	---	None	---	None
UfC: Urban land.										
Alfic Udarents----	D	Very high	January	1.0-1.7	1.7-3.0	---	---	None	---	Rare
			February	1.0-1.7	1.7-3.0	---	---	None	---	Rare
			March	1.0-1.7	1.7-3.0	---	---	None	---	Rare
			April	1.0-1.7	1.7-3.0	---	---	None	---	Rare
			May	1.0-1.7	1.7-3.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.7-3.0	---	---	None	---	Rare
			December	1.0-1.7	1.7-3.0	---	---	None	---	Rare

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UgC: Urban land.				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
Alfic Udarents----	D	Very high	January	1.5-2.5	1.5-2.7	---	---	None	---	None
			February	1.5-2.5	1.5-2.7	---	---	None	---	None
			March	1.5-2.5	1.5-2.7	---	---	None	---	None
			April	1.5-2.5	1.5-2.7	---	---	None	---	None
			May	1.5-2.5	1.5-2.7	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.5-2.5	1.5-2.7	---	---	None	---	None
			December	1.5-2.5	1.5-2.7	---	---	None	---	None
UhC: Urban land.										
Alfic Udarents----	D	Very high	January	1.5-2.5	2.0-3.0	---	---	None	---	None
			February	1.5-2.5	2.0-3.0	---	---	None	---	None
			March	1.5-2.5	2.0-3.0	---	---	None	---	None
			April	1.5-2.5	2.0-3.0	---	---	None	---	None
			May	1.5-2.5	2.0-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.5-2.5	2.0-3.0	---	---	None	---	None
			December	1.5-2.5	2.0-3.0	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UIC: Urban land. Alfic Udarents----	D	Very high	January February March April May June July August September October November December	---	---	---	---	None None None None None None None None None None None None	---	None None None None None None None None None None None
UID: Urban land. Alfic Udarents----	D	Very high	January February March April May June July August September October November December	---	---	---	---	None None None None None None None None None None None None	---	None None None None None None None None None None None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UiF: Urban land.				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
Ultic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
UjC: Urban land.										
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UjD: Urban land.				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
UjF: Urban land.										
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UkC: Urban land.				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
Beasley-----	C	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
ULC: Urban land.										
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None



Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table			Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>						
ULC: Caneyville-----	C	High	January	---	---	---	---	None	---	None	---	None
			February	---	---	---	---	None	---	None	---	None
			March	---	---	---	---	None	---	None	---	None
			April	---	---	---	---	None	---	None	---	None
			May	---	---	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	None	---	None
ULD: Urban land. Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None	---	None
			February	---	---	---	---	None	---	None	---	None
			March	---	---	---	---	None	---	None	---	None
			April	---	---	---	---	None	---	None	---	None
			May	---	---	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	None	---	None
Caneyville-----	C	Very high	January	---	---	---	---	None	---	None	---	None
			February	---	---	---	---	None	---	None	---	None
			March	---	---	---	---	None	---	None	---	None
			April	---	---	---	---	None	---	None	---	None
			May	---	---	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
UmC: Urban land.										
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
Crider-----	B	High	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
UmD: Urban land.										
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
UmD: Crider-----	B	Very high		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
UnC: Urban land. Alfic Udarents----	D	Very high								
			January	3.0-5.0	>6.0	---	---	None	---	Rare
			February	3.0-5.0	>6.0	---	---	None	---	Rare
			March	3.0-5.0	>6.0	---	---	None	---	Rare
			April	3.0-5.0	>6.0	---	---	None	---	Rare
			May	3.0-5.0	>6.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.0-5.0	>6.0	---	---	None	---	Rare
			December	3.0-5.0	>6.0	---	---	None	---	Rare
Elk-----	B	High								
			January	3.0-5.0	>6.0	---	---	None	---	Rare
			February	3.0-5.0	>6.0	---	---	None	---	Rare
			March	3.0-5.0	>6.0	---	---	None	---	Rare
			April	3.0-5.0	>6.0	---	---	None	---	Rare
			May	3.0-5.0	>6.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	3.0-5.0	>6.0	---	---	None	---	Rare
			December	3.0-5.0	>6.0	---	---	None	---	Rare

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UoC: Urban land.  Alfic Udarents----	D	Very high		<u>Ft</u>	<u>Ft</u>					
			January	1.0-2.1	1.5-2.7	---		None	---	None
			February	1.0-2.1	1.5-2.7	---		None	---	None
			March	1.0-2.1	1.5-2.7	---		None	---	None
			April	1.0-2.1	1.5-2.7	---		None	---	None
			May	1.0-2.1	1.5-2.7	---		None	---	None
			June	---	---	---		None	---	None
			July	---	---	---		None	---	None
			August	---	---	---		None	---	None
			September	---	---	---		None	---	None
			October	---	---	---		None	---	None
			November	1.0-2.1	1.5-2.7	---		None	---	None
			December	1.0-2.1	1.5-2.7	---		None	---	None
Lawrence-----	C	High	January	1.0-2.1	1.5-2.7	---		None	---	None
			February	1.0-2.1	1.5-2.7	---		None	---	None
			March	1.0-2.1	1.5-2.7	---		None	---	None
			April	1.0-2.1	1.5-2.7	---		None	---	None
			May	1.0-2.1	1.5-2.7	---		None	---	None
			June	---	---	---		None	---	None
			July	---	---	---		None	---	None
			August	---	---	---		None	---	None
			September	---	---	---		None	---	None
			October	---	---	---		None	---	None
			November	1.0-2.1	1.5-2.7	---		None	---	None
			December	1.0-2.1	1.5-2.7	---		None	---	None
			UpC: Urban land.  Alfic Udarents----	D	Very high	January	1.0-2.1	1.5-2.7	---	
February	1.0-2.1	1.5-2.7				---		None	---	Rare
March	1.0-2.1	1.5-2.7				---		None	---	Rare
April	1.0-2.1	1.5-2.7				---		None	---	Rare
May	1.0-2.1	1.5-2.7				---		None	---	Rare
June	---	---				---		None	---	None
July	---	---				---		None	---	None
August	---	---				---		None	---	None
September	---	---				---		None	---	None
October	---	---				---		None	---	None
November	1.0-2.1	1.5-2.7				---		None	---	Rare
December	1.0-2.1	1.5-2.7				---		None	---	Rare

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
UpC: Lawrence-----	C	High		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	1.0-2.1	1.5-2.7	---	---	None	---	Rare
			February	1.0-2.1	1.5-2.7	---	---	None	---	Rare
			March	1.0-2.1	1.5-2.7	---	---	None	---	Rare
			April	1.0-2.1	1.5-2.7	---	---	None	---	Rare
			May	1.0-2.1	1.5-2.7	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-2.1	1.5-2.7	---	---	None	---	Rare
December	1.0-2.1	1.5-2.7	---	---	None	---	Rare			
UpC: Urban land. Alfic Udarents----	D	Very high								
			January	1.5-2.5	2.0-3.0	---	---	None	---	None
			February	1.5-2.5	2.0-3.0	---	---	None	---	None
			March	1.5-2.5	2.0-3.0	---	---	None	---	None
			April	1.5-2.5	2.0-3.0	---	---	None	---	None
			May	1.5-2.5	2.0-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.5-2.5	2.0-3.0	---	---	None	---	None
December	1.5-2.5	2.0-3.0	---	---	None	---	None			
Nicholson-----	C	High								
			January	1.5-2.5	2.0-3.0	---	---	None	---	None
			February	1.5-2.5	2.0-3.0	---	---	None	---	None
			March	1.5-2.5	2.0-3.0	---	---	None	---	None
			April	1.5-2.5	2.0-3.0	---	---	None	---	None
			May	1.5-2.5	2.0-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.5-2.5	2.0-3.0	---	---	None	---	None
December	1.5-2.5	2.0-3.0	---	---	None	---	None			

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
UrC: Urban land.  Alfic Udarents----	C	Very high		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	1.2-2.5	1.7-3.0	---	---	None	---	None
			February	1.2-2.5	1.7-3.0	---	---	None	---	None
			March	1.2-2.5	1.7-3.0	---	---	None	---	None
			April	1.2-2.5	1.7-3.0	---	---	None	---	None
			May	1.2-2.5	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.2-2.5	1.7-3.0	---	---	None	---	None
			December	1.2-2.5	1.7-3.0	---	---	None	---	None
Otwood-----	C	High	January	1.2-2.5	1.7-3.0	---	---	None	---	None
			February	1.2-2.5	1.7-3.0	---	---	None	---	None
			March	1.2-2.5	1.7-3.0	---	---	None	---	None
			April	1.2-2.5	1.7-3.0	---	---	None	---	None
			May	1.2-2.5	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.2-2.5	1.7-3.0	---	---	None	---	None
			December	1.2-2.5	1.7-3.0	---	---	None	---	None
			UsC: Urban land.  Alfic Udarents----	D	Very high	January	1.2-2.5	1.7-3.0	---	---
February	1.2-2.5	1.7-3.0				---	---	None	---	Rare
March	1.2-2.5	1.7-3.0				---	---	None	---	Rare
April	1.2-2.5	1.7-3.0				---	---	None	---	Rare
May	1.2-2.5	1.7-3.0				---	---	None	---	Rare
June	---	---				---	---	None	---	None
July	---	---				---	---	None	---	None
August	---	---				---	---	None	---	None
September	---	---				---	---	None	---	None
October	---	---				---	---	None	---	None
November	1.2-2.5	1.7-3.0				---	---	None	---	Rare
December	1.2-2.5	1.7-3.0				---	---	None	---	Rare

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
Usc: Otwood-----	C	High		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	1.2-2.5	1.7-3.0	---	---	None	---	Rare
			February	1.2-2.5	1.7-3.0	---	---	None	---	Rare
			March	1.2-2.5	1.7-3.0	---	---	None	---	Rare
			April	1.2-2.5	1.7-3.0	---	---	None	---	Rare
			May	1.2-2.5	1.7-3.0	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.2-2.5	1.7-3.0	---	---	None	---	Rare
			December	1.2-2.5	1.7-3.0	---	---	None	---	Rare
Utc: Urban land. Alfic Udarents----	D	Very high								
			January	0.0-1.0	1.2-3.0	---	---	None	---	None
			February	0.0-1.0	1.2-3.0	---	---	None	---	None
			March	0.0-1.0	1.2-3.0	---	---	None	---	None
			April	0.0-1.0	1.2-3.0	---	---	None	---	None
			May	0.0-1.0	1.2-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-1.0	1.2-3.0	---	---	None	---	None
			December	0.0-1.0	1.2-3.0	---	---	None	---	None
Robertsville-----	D	Negligible								
			January	0.0-0.8	1.2-3.0	---	---	None	---	None
			February	0.0-0.8	1.2-3.0	---	---	None	---	None
			March	0.0-0.8	1.2-3.0	---	---	None	---	None
			April	0.0-0.8	1.2-3.0	---	---	None	---	None
			May	0.0-0.8	1.2-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	0.0-0.8	1.2-3.0	---	---	None	---	None
			December	0.0-0.8	1.2-3.0	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table			Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>						
UuC: Urban land.												
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None	---	None
			February	---	---	---	---	None	---	None	---	None
			March	---	---	---	---	None	---	None	---	None
			April	---	---	---	---	None	---	None	---	None
			May	---	---	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	None	---	None
Sandview-----	B	Medium	January	---	---	---	---	None	---	None	---	None
			February	---	---	---	---	None	---	None	---	None
			March	---	---	---	---	None	---	None	---	None
			April	---	---	---	---	None	---	None	---	None
			May	---	---	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	None	---	None
UvC: Urban land.												
Alfic Udarents----	D	Very high	January	1.0-1.7	1.5-3.0	---	---	None	---	None	---	None
			February	1.0-1.7	1.5-3.0	---	---	None	---	None	---	None
			March	1.0-1.7	1.5-3.0	---	---	None	---	None	---	None
			April	1.0-1.7	1.5-3.0	---	---	None	---	None	---	None
			May	1.0-1.7	1.5-3.0	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	1.0-1.7	1.5-3.0	---	---	None	---	None	---	None
			December	1.0-1.7	1.5-3.0	---	---	None	---	None	---	None



Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding		Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UvC: Sciotoville-----	C	Medium		<u>Ft</u>	<u>Ft</u>					
			January	1.0-1.7	1.5-3.0	---	---	None	---	None
			February	1.0-1.7	1.5-3.0	---	---	None	---	None
			March	1.0-1.7	1.5-3.0	---	---	None	---	None
			April	1.0-1.7	1.5-3.0	---	---	None	---	None
			May	1.0-1.7	1.5-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.5-3.0	---	---	None	---	None
December	1.0-1.7	1.5-3.0	---	---	None	---	None			
UwC: Urban land. Alfic Udarents----	D	Very high								
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
December	---	---	---	---	None	---	None			
Shrouts-----	D	Very high								
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
December	---	---	---	---	None	---	None			

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table			Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>						
UwD: Urban land.												
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None	---	None
			February	---	---	---	---	None	---	None	---	None
			March	---	---	---	---	None	---	None	---	None
			April	---	---	---	---	None	---	None	---	None
			May	---	---	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	None	---	None
Shrouts-----	D	Very high	January	---	---	---	---	None	---	None	---	None
			February	---	---	---	---	None	---	None	---	None
			March	---	---	---	---	None	---	None	---	None
			April	---	---	---	---	None	---	None	---	None
			May	---	---	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	None	---	None
UxC: Urban land.												
Alfic Udarents----	D	Very high	January	1.0-1.7	1.7-3.0	---	---	None	---	None	---	None
			February	1.0-1.7	1.7-3.0	---	---	None	---	None	---	None
			March	1.0-1.7	1.7-3.0	---	---	None	---	None	---	None
			April	1.0-1.7	1.7-3.0	---	---	None	---	None	---	None
			May	1.0-1.7	1.7-3.0	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	1.0-1.7	1.7-3.0	---	---	None	---	None	---	None
			December	1.0-1.7	1.7-3.0	---	---	None	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UxC: Weinbach-----	C	High		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	1.0-1.7	1.7-3.0	---	---	None	---	None
			February	1.0-1.7	1.7-3.0	---	---	None	---	None
			March	1.0-1.7	1.7-3.0	---	---	None	---	None
			April	1.0-1.7	1.7-3.0	---	---	None	---	None
			May	1.0-1.7	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.7-3.0	---	---	None	---	None
			December	1.0-1.7	1.7-3.0	---	---	None	---	None
UyC: Urban land. Alfic Udarents----	D	Very high								
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None
Wheeling-----	B	High								
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table			Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>						
UyD: Urban land.												
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	None	---	None
			February	---	---	---	---	None	---	None	---	None
			March	---	---	---	---	None	---	None	---	None
			April	---	---	---	---	None	---	None	---	None
			May	---	---	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	None	---	None
Wheeling-----	B	Very high	January	---	---	---	---	None	---	None	---	None
			February	---	---	---	---	None	---	None	---	None
			March	---	---	---	---	None	---	None	---	None
			April	---	---	---	---	None	---	None	---	None
			May	---	---	---	---	None	---	None	---	None
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	None	---	None
UzC: Urban land.												
Alfic Udarents----	D	Very high	January	---	---	---	---	None	---	Rare	---	Rare
			February	---	---	---	---	None	---	Rare	---	Rare
			March	---	---	---	---	None	---	Rare	---	Rare
			April	---	---	---	---	None	---	Rare	---	Rare
			May	---	---	---	---	None	---	Rare	---	Rare
			June	---	---	---	---	None	---	None	---	None
			July	---	---	---	---	None	---	None	---	None
			August	---	---	---	---	None	---	None	---	None
			September	---	---	---	---	None	---	None	---	None
			October	---	---	---	---	None	---	None	---	None
			November	---	---	---	---	None	---	None	---	None
			December	---	---	---	---	None	---	Rare	---	Rare

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
UzC: Wheeling-----	B	High		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	---	Rare
			February	---	---	---	---	None	---	Rare
			March	---	---	---	---	None	---	Rare
			April	---	---	---	---	None	---	Rare
			May	---	---	---	---	None	---	Rare
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	Rare
December	---	---	---	---	None	---	Rare			
W. Water										
			January	1.0-1.7	1.7-3.0	---	---	None	---	None
			February	1.0-1.7	1.7-3.0	---	---	None	---	None
			March	1.0-1.7	1.7-3.0	---	---	None	---	None
			April	1.0-1.7	1.7-3.0	---	---	None	---	None
			May	1.0-1.7	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.7-3.0	---	---	None	---	None
December	1.0-1.7	1.7-3.0	---	---	None	---	None			
WeA: Weinbach-----	C	Low								
			January	1.0-1.7	1.7-3.0	---	---	None	---	None
			February	1.0-1.7	1.7-3.0	---	---	None	---	None
			March	1.0-1.7	1.7-3.0	---	---	None	---	None
			April	1.0-1.7	1.7-3.0	---	---	None	---	None
			May	1.0-1.7	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.7-3.0	---	---	None	---	None
December	1.0-1.7	1.7-3.0	---	---	None	---	None			
WeB: Weinbach-----	C	Low								
			January	1.0-1.7	1.7-3.0	---	---	None	---	None
			February	1.0-1.7	1.7-3.0	---	---	None	---	None
			March	1.0-1.7	1.7-3.0	---	---	None	---	None
			April	1.0-1.7	1.7-3.0	---	---	None	---	None
			May	1.0-1.7	1.7-3.0	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.7-3.0	---	---	None	---	None
December	1.0-1.7	1.7-3.0	---	---	None	---	None			

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Surface water depth	Ponding		Flooding	
				Upper limit	Lower limit		Duration	Frequency	Duration	Frequency
				<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
WfA: Weinbach-----	C	Low	January	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			February	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			March	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			April	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			May	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			December	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
WfB: Weinbach-----	C	Low	January	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			February	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			March	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			April	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			May	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
			December	1.0-1.7	1.7-3.0	---	---	None	Brief	Occasional
WhA: Wheeling-----	B	Low	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding		Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
WhB: Wheeling-----	B	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
December	---	---	---	---	None	---	None			
WhC: Wheeling-----	B	Medium		---	---	---	---	None	---	None
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
December	---	---	---	---	None	---	None			
WhD: Wheeling-----	B	Medium		---	---	---	---	None	---	None
			January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
December	---	---	---	---	None	---	None			

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	
WkF: Wheeling-----	B	High		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>					
			January	---	---	---	---	None	Brief	Occasional	
			February	---	---	---	---	None	Brief	Occasional	
			March	---	---	---	---	None	Brief	Occasional	
			April	---	---	---	---	None	Brief	Occasional	
			May	---	---	---	---	None	Brief	Occasional	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	Brief	Occasional	
December	---	---	---	---	None	Brief	Occasional				
WkA: Wheeling-----	B	Low		---	---	---	---				
			January	---	---	---	---	None	Brief	Occasional	
			February	---	---	---	---	None	Brief	Occasional	
			March	---	---	---	---	None	Brief	Occasional	
			April	---	---	---	---	None	Brief	Occasional	
			May	---	---	---	---	None	Brief	Occasional	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	Brief	Occasional	
December	---	---	---	---	None	Brief	Occasional				
WkB: Wheeling-----	B	Low		---	---	---	---				
			January	---	---	---	---	None	Brief	Occasional	
			February	---	---	---	---	None	Brief	Occasional	
			March	---	---	---	---	None	Brief	Occasional	
			April	---	---	---	---	None	Brief	Occasional	
			May	---	---	---	---	None	Brief	Occasional	
			June	---	---	---	---	None	---	None	
			July	---	---	---	---	None	---	None	
			August	---	---	---	---	None	---	None	
			September	---	---	---	---	None	---	None	
			October	---	---	---	---	None	---	None	
			November	---	---	---	---	None	Brief	Occasional	
December	---	---	---	---	None	Brief	Occasional				



Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
WkC: Wheeling-----	B	Medium		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	Brief	Occasional
			February	---	---	---	---	None	Brief	Occasional
			March	---	---	---	---	None	Brief	Occasional
			April	---	---	---	---	None	Brief	Occasional
			May	---	---	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	Brief	Occasional
December	---	---	---	---	None	Brief	Occasional			
WkD: Wheeling-----	B	Medium	January	---	---	---	---	None	Brief	Occasional
			February	---	---	---	---	None	Brief	Occasional
			March	---	---	---	---	None	Brief	Occasional
			April	---	---	---	---	None	Brief	Occasional
			May	---	---	---	---	None	Brief	Occasional
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	Brief	Occasional
WkF: Wheeling-----	B	High	January	---	---	---	---	None	---	None
			February	---	---	---	---	None	---	None
			March	---	---	---	---	None	---	None
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	None
			December	---	---	---	---	None	---	None

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
WoA: Woolper-----	C	Low		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>				
			January	---	---	---	---	None	---	Rare
			February	---	---	---	---	None	---	Rare
			March	---	---	---	---	None	---	Rare
			April	---	---	---	---	None	---	Rare
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	Rare
			December	---	---	---	---	None	---	Rare
WoB: Woolper-----	C	Low		---	---	---	---	None	---	Rare
			January	---	---	---	---	None	---	Rare
			February	---	---	---	---	None	---	Rare
			March	---	---	---	---	None	---	Rare
			April	---	---	---	---	None	---	None
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	Rare
			December	---	---	---	---	None	---	Rare
WoC: Woolper-----	C	Medium		---	---	---	---	None	---	Rare
			January	---	---	---	---	None	---	Rare
			February	---	---	---	---	None	---	Rare
			March	---	---	---	---	None	---	Rare
			April	---	---	---	---	None	---	Rare
			May	---	---	---	---	None	---	None
			June	---	---	---	---	None	---	None
			July	---	---	---	---	None	---	None
			August	---	---	---	---	None	---	None
			September	---	---	---	---	None	---	None
			October	---	---	---	---	None	---	None
			November	---	---	---	---	None	---	Rare
			December	---	---	---	---	None	---	Rare

Table 20.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Surface runoff	Month	Water table			Ponding			Flooding		
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency	Duration	Frequency
ZpA: Zipp-----	D	Negligible		<u>Ft</u>	<u>Ft</u>	<u>Ft</u>						
			January	0.0-0.8	>6.0	0.0-2.0	Brief	Occasional	---		---	None
			February	0.0-0.8	>6.0	0.0-2.0	Brief	Occasional	---		---	None
			March	0.0-0.8	>6.0	0.0-2.0	Brief	Occasional	---		---	None
			April	0.0-0.8	>6.0	0.0-2.0	Brief	Occasional	---		---	None
			May	0.0-0.8	>6.0	0.0-2.0	Brief	Occasional	---		---	None
			June	---	---	---	---	None	---		---	None
			July	---	---	---	---	None	---		---	None
			August	---	---	---	---	None	---		---	None
			September	---	---	---	---	None	---		---	None
			October	---	---	---	---	None	---		---	None
			November	0.0-0.8	>6.0	0.0-2.0	Brief	Occasional	---		---	None
			December	0.0-0.8	>6.0	0.0-2.0	Brief	Occasional	---		---	None

Table 21.--Soil Features

(See text for definitions of terms used in this table. Absence of an entry indicates that the feature is not a concern or that data were not estimated)

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
AfB: Alford-----	---	---	---	---	None	Moderate	High
AfC: Alford-----	---	---	---	---	None	Moderate	High
AfD: Alford-----	---	---	---	---	None	Moderate	High
AfF: Alford-----	---	---	---	---	None	Moderate	High
BeB: Beasley-----	Paralithic bedrock	40-60	Weakly cemented	---	None	Moderate	Moderate
BeC: Beasley-----	Paralithic bedrock	40-60	Weakly cemented	---	None	Moderate	Moderate
BeD: Beasley-----	Paralithic bedrock	40-60	Weakly cemented	---	None	Moderate	Moderate
Bo: Boonewood-----	Lithic bedrock	20-40	Indurated	---	None	Low	Low
CaB2: Caneyville-----	Lithic bedrock	20-40	Indurated	---	None	High	Moderate
CaC2: Caneyville-----	Lithic bedrock	20-40	Indurated	---	None	High	Moderate
CaD2: Caneyville-----	Lithic bedrock	20-40	Indurated	---	None	High	Moderate
CcF2: Caneyville-----	Lithic bedrock	20-40	Indurated	---	None	High	Moderate
Rock outcrop.							

Table 21.--Soil Features--Continued

Map symbol and soil name	Restrictive layer		Hardness		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In			Initial In	Total In		Uncoated steel	Concrete
CeF: Carpenter-----	Paralithic bedrock	40-60	Strongly cemented		---	---	None	Low	Moderate
Cm. Cemeteries									
CnF: Chagrin-----	---	---	---		---	---	None	---	---
Nelse-----	---	---	---		---	---	None	---	---
Wheeling-----	---	---	---		---	---	None	Low	Moderate
Co: Combs-----	---	---	---		---	---	None	Low	Low
CrA: Crider-----	---	---	---		---	---	None	Moderate	Moderate
CrB: Crider-----	---	---	---		---	---	None	Moderate	Moderate
CrC: Crider-----	---	---	---		---	---	None	Moderate	Moderate
CrD: Crider-----	---	---	---		---	---	None	Moderate	Moderate
DAM. Dam, large									
Dp. Dumps, ash									
EkA: Elk-----	---	---	---		---	---	None	Moderate	Moderate
EkB: Elk-----	---	---	---		---	---	None	Moderate	Moderate
EkC: Elk-----	---	---	---		---	---	None	Moderate	Moderate
EkD: Elk-----	---	---	---		---	---	None	Moderate	Moderate

Table 21.--Soil Features--Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
EoA: Elk-----	---	---	---	---	None	Moderate	Moderate
EoB: Elk-----	---	---	---	---	None	Moderate	Moderate
EoC: Elk-----	---	---	---	---	None	Moderate	Moderate
FaC: Faywood-----	Lithic bedrock	20-40	Indurated	---	None	High	Moderate
FaD: Faywood-----	Lithic bedrock	20-40	Indurated	---	None	High	Moderate
FeC3: Faywood-----	Lithic bedrock	20-40	Indurated	---	None	High	Moderate
FeD3: Faywood-----	Lithic bedrock	20-40	Indurated	---	None	High	Moderate
FsF: Faywood-----	Lithic bedrock	20-40	Indurated	---	None	High	Moderate
Shrouts-----	Paralithic bedrock	20-40	Weakly cemented	---	None	High	Low
Beasley-----	Paralithic bedrock	40-60	Weakly cemented	---	None	Moderate	Moderate
GpD: Gilpin-----	Paralithic bedrock	20-40	Strongly cemented	---	None	Low	High
GwF: Gilpin-----	Paralithic bedrock	20-40	Strongly cemented	---	None	Low	High
Weikert-----	Paralithic bedrock	10-20	Strongly cemented	---	None	Moderate	Moderate
Ha: Huntington-----	---	---	---	---	None	Low	Moderate
Hf: Huntington-----	---	---	---	---	None	Low	Moderate

Table 21.—Soil Features—Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
L <sub>a</sub> A: Lawrence-----	Fragipan	18-32	Noncemented	---	---	None	High
L <sub>a</sub> B: Lawrence-----	Fragipan	18-32	Noncemented	---	---	None	High
L <sub>b</sub> A: Lawrence-----	Fragipan	18-32	Noncemented	---	---	None	High
L <sub>b</sub> B: Lawrence-----	Fragipan	18-32	Noncemented	---	---	None	High
L <sub>d</sub> : Lindside-----	---	---	---	---	---	None	Low
L <sub>n</sub> : Lindside-----	---	---	---	---	---	None	Low
M <sub>e</sub> : Melvin-----	---	---	---	---	---	None	Low
M <sub>f</sub> : Melvin-----	---	---	---	---	---	None	Low
N <sub>e</sub> : Newark-----	---	---	---	---	---	None	Low
N <sub>f</sub> : Newark-----	---	---	---	---	---	None	Low
N <sub>n</sub> A: Nicholson-----	Fragipan	16-30	Noncemented	---	---	None	Moderate
N <sub>n</sub> B: Nicholson-----	Fragipan	16-30	Noncemented	---	---	None	Moderate
N <sub>n</sub> C: Nicholson-----	Fragipan	16-30	Noncemented	---	---	None	Moderate
N <sub>o</sub> : Nolin-----	---	---	---	---	---	None	Moderate
O <sub>t</sub> A: Otwood-----	Fragipan	20-36	Noncemented	---	---	None	High
O <sub>t</sub> B: Otwood-----	Fragipan	20-36	Noncemented	---	---	None	High

Table 21.—Soil Features—Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
OtC: Otwood-----	Fragipan	20-36	Noncemented	---	---	Moderate	High
OwA: Otwood-----	Fragipan	20-36	Noncemented	---	---	Moderate	High
OwB: Otwood-----	Fragipan	20-36	Noncemented	---	---	Moderate	High
OwC: Otwood-----	Fragipan	20-36	Noncemented	---	---	Moderate	High
Pa: Patton-----	---	---	---	---	---	High	Low
Pt. Pits, quarries							
RoA: Robertsville-----	Fragipan	15-36	Noncemented	---	---	High	High
RpA: Robertsville-----	Fragipan	15-36	Noncemented	---	---	High	High
SaB: Sandview-----	---	---	---	---	---	Moderate	Moderate
SaC: Sandview-----	---	---	---	---	---	Moderate	Moderate
ScA: Sciotoville-----	Fragipan	16-38	Noncemented	---	---	Moderate	High
ScB: Sciotoville-----	Fragipan	16-38	Noncemented	---	---	Moderate	High
ScC: Sciotoville-----	Fragipan	16-38	Noncemented	---	---	Moderate	High
SdA: Sciotoville-----	Fragipan	16-38	Noncemented	---	---	Moderate	High
SdB: Sciotoville-----	Fragipan	16-38	Noncemented	---	---	Moderate	High
ShC3: Shrouts-----	Paralithic bedrock	20-40	Weakly cemented	---	---	High	Low



Table 21.--Soil Features--Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Hardness	Initial In	Total In	Uncoated steel	Concrete
ShD3: Shrouts-----	Paralithic bedrock	In					
		20-40	Weakly cemented	---	---	High	Low
TjB: Tilsit-----	Fragipan	18-32	Noncemented	---	---	High	High
TjC: Tilsit-----	Fragipan	18-32	Noncemented	---	---	High	High
TjD: Tilsit-----	Fragipan	18-32	Noncemented	---	---	High	High
Ua. Urban land.							
UabC: Urban land.							
Haplic Udarents-----	Lithic bedrock	20-40	Indurated	---	---	Low	Low
Boonewood-----	Lithic bedrock	20-40	Indurated	---	---	Low	Low
UacB: Urban land.							
Haplic Udarents-----	---	---	---	---	---	Low	Low
Combs-----	---	---	---	---	---	Low	Low
UadB: Urban land.							
Haplic Udarents-----	---	---	---	---	---	High	Low
Melvin-----	---	---	---	---	---	High	Low
UaeB: Urban land.							
Haplic Udarents-----	---	---	---	---	---	High	Low
Newark-----	---	---	---	---	---	High	Low

Table 21.--Soil Features--Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Hardness	Initial In	Total In	Uncoated steel	Concrete
UafC: Urban land.		In					
Haplic Udarents-----	---	---	---	---	None	High	Low
Zipp-----	---	---	---	---	None	High	Low
UagB: Urban land-Udorthents							
UahC: Urban land.							
Udorthents-----	---	---	---	---	None	---	---
UaiC: Urban land-Udorthents							
UajF: Udorthents-Urban land							
UakF: Urban land-Udorthents							
UamC: Urban land.							
Ultic Udarents-----	Fragipan	18-32	Noncemented	---	None	High	High
Tilsit-----	Fragipan	18-32	Noncemented	---	None	High	High
UbC: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Low	Moderate
Ubd: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Low	Moderate
Ucc: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Low	Moderate

Table 21.--Soil Features--Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
UcF: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Low	Moderate
UdC: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Low	Moderate
UeC: Urban land.							
Alfic Udarents-----		20-36	Noncemented	---	None	High	High
UfC: Urban land.							
Alfic Udarents-----	Fragipan	20-36	Noncemented	---	None	High	High
UgC: Urban land.							
Alfic Udarents-----	Fragipan	18-32 48-68	Noncemented Strongly cemented	---	None	High	High
UhC: Urban land.							
Alfic Udarents-----	Fragipan Lithic bedrock	16-30 77-97	Noncemented Indurated	---	None	High	Moderate
UvC: Urban land.							
Alfic Udarents-----	Paralithic bedrock	40-60	Weakly cemented	---	None	Moderate	Moderate
UiD: Urban land.							
Alfic Udarents-----	Paralithic bedrock	40-60	Weakly cemented	---	None	Moderate	Moderate

Table 21.--Soil Features--Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
UiF: Urban land.							
Ultic Udarents-----	Paralithic bedrock	62-80	Weakly cemented	---	---	Moderate	Moderate
UjC: Urban land.							
Alfic Udarents-----	Lithic bedrock	66-74	Indurated	---	---	Moderate	Moderate
UjD: Urban land.							
Alfic Udarents-----	Lithic bedrock	66-74	Indurated	---	---	Moderate	Moderate
UjF: Urban land.							
Alfic Udarents-----	Lithic bedrock	66-74	Indurated	---	---	Moderate	Moderate
UkC: Urban land.							
Alfic Udarents-----	Paralithic bedrock	40-60	Weakly cemented	---	---	Moderate	Moderate
Beasley-----	Paralithic bedrock	40-60	Weakly cemented	---	---	Moderate	Moderate
U1C: Urban land.							
Alfic Udarents-----	Lithic bedrock	20-40	Indurated	---	---	High	Moderate
Caneyville-----	Lithic bedrock	20-40	Indurated	---	---	High	Moderate
U1D: Urban land.							
Alfic Udarents-----	Lithic bedrock	20-40	Indurated	---	---	High	Moderate
Caneyville-----	Lithic bedrock	20-40	Indurated	---	---	High	Moderate

Table 21.—Soil Features—Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
UmC: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Moderate	Moderate
Crider-----	---	---	---	---	None	Moderate	Moderate
UmD: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Moderate	Moderate
Crider-----	---	---	---	---	None	Moderate	Moderate
UnC: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Moderate	Moderate
Elk-----	---	---	---	---	None	Moderate	Moderate
VoC: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Moderate	Moderate
Lawrence-----	---	---	---	---	None	Moderate	Moderate
UpC: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Moderate	Moderate
Lawrence-----	---	---	---	---	None	Moderate	Moderate
UqC: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Moderate	Moderate
Nicholson-----	---	---	---	---	None	Moderate	Moderate
UrC: Urban land.							
Alfic Udarents-----	---	---	---	---	None	Moderate	Moderate
Otwood-----	---	---	---	---	None	Moderate	Moderate

Table 21.--Soil Features--Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
UsC: Urban land.							
Alfic Udarents-----	Fragipan	20-36	Noncemented	---	---	Moderate	High
Otwood-----	Fragipan	20-36	Noncemented	---	---	Moderate	High
UtC: Urban land.							
Alfic Udarents-----	Fragipan	15-36	Noncemented	---	---	High	High
Robertsville-----	Fragipan	15-36	Noncemented	---	---	High	High
UuC: Urban land.							
Alfic Udarents-----	---	---	---	---	---	Moderate	Moderate
Sandview-----	---	---	---	---	---	Moderate	Moderate
UvC: Urban land.							
Alfic Udarents-----	Fragipan	16-38	Noncemented	---	---	Moderate	High
Sciotoville-----	Fragipan	16-38	Noncemented	---	---	Moderate	High
UwC: Urban land.							
Alfic Udarents-----	Paralithic bedrock	20-40	Weakly cemented	---	---	High	Low
Shrouts-----	Paralithic bedrock	20-40	Weakly cemented	---	---	High	Low
UwD: Urban land.							
Alfic Udarents-----	Paralithic bedrock	20-40	Weakly cemented	---	---	High	Low
Shrouts-----	Paralithic bedrock	20-40	Weakly cemented	---	---	High	Low

Table 21.—Soil Features—Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
UxC: Urban land.							
Alfic Udarents-----	Fragipan	20-36	Noncemented	---	---	High	High
Weinbach-----	Fragipan	20-36	Noncemented	---	---	High	High
UyC: Urban land.							
Alfic Udarents-----	---	---	---	---	---	Low	Moderate
Wheeling-----	---	---	---	---	---	Low	Moderate
UyD: Urban land.							
Alfic Udarents-----	---	---	---	---	---	Low	Moderate
Wheeling-----	---	---	---	---	---	Low	Moderate
UzC: Urban land.							
Alfic Udarents-----	---	---	---	---	---	Low	Moderate
Wheeling-----	---	---	---	---	---	Low	Moderate
W. Water							
WeA: Weinbach-----	Fragipan	20-36	Noncemented	---	---	High	High
WeB: Weinbach-----	Fragipan	20-36	Noncemented	---	---	High	High
WfA: Weinbach-----	Fragipan	20-36	Noncemented	---	---	High	High
WfB: Weinbach-----	Fragipan	20-36	Noncemented	---	---	High	High
WhA: Wheeling-----	---	---	---	---	---	Low	Moderate
WhB: Wheeling-----	---	---	---	---	---	Low	Moderate

Table 21.—Soil Features—Continued

Map symbol and soil name	Restrictive layer		Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top In	Hardness	Initial In	Total In	Uncoated steel	Concrete
WhC: Wheeling-----	--	--	--	--	---	Low	Moderate
WhD: Wheeling-----	--	--	--	--	---	Low	Moderate
WhF: Wheeling-----	--	--	--	--	---	Low	Moderate
WkA: Wheeling-----	--	--	--	--	---	Low	Moderate
WkB: Wheeling-----	--	--	--	--	---	Low	Moderate
WkC: Wheeling-----	--	--	--	--	---	Low	Moderate
WkD: Wheeling-----	--	--	--	--	---	Low	Moderate
WkF: Wheeling-----	--	--	--	--	---	Low	Moderate
WoA: Woolper-----	--	--	--	--	---	Moderate	Low
WoB: Woolper-----	--	--	--	--	---	Moderate	Low
WoC: Woolper-----	--	--	--	--	---	Moderate	Low
ZpA: Zipp-----	--	--	--	--	---	High	Low



# Soil Survey of Jefferson County, Kentucky

Table 22.--Taxonomic Classification of the Soils

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series)

Soil name	Family or higher taxonomic class
Alfic Udarents-----	Alfic Udarents
*Alford-----	Fine-silty, mixed, superactive, mesic Ultic HapludalFs
Beasley-----	Fine, mixed, active, mesic Typic HapludalFs
Boonewood-----	Fine-silty, mixed, active, mesic Fluvaquentic Eutrudepts
Caneyville-----	Fine, mixed, active, mesic Typic HapludalFs
Carpenter-----	Fine-loamy, mixed, semiactive, mesic Ultic HapludalFs
Chagrin-----	Fine-loamy, mixed, active, mesic Dystric Fluventic Eutrudepts
*Combs-----	Coarse-loamy, mixed, active, mesic Fluventic Hapludolls
Crider-----	Fine-silty, mixed, active, mesic Typic PaleudalFs
Elk-----	Fine-silty, mixed, active, mesic Ultic HapludalFs
Faywood-----	Fine, mixed, active, mesic Typic HapludalFs
Gilpin-----	Fine-loamy, mixed, active, mesic Typic HapludulFs
Haplic Udarents-----	Haplic Udarents
Huntington-----	Fine-silty, mixed, active, mesic Fluventic Hapludolls
Lawrence-----	Fine-silty, mixed, semiactive, mesic Aquic FragiudalFs
Lindside-----	Fine-silty, mixed, active, mesic Fluvaquentic Eutrudepts
Melvin-----	Fine-silty, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts
Nelse-----	Coarse-loamy, mixed, active, nonacid, mesic Mollic Udifluvents
Newark-----	Fine-silty, mixed, active, nonacid, mesic Fluventic Endoaquepts
Nicholson-----	Fine-silty, mixed, active, mesic Oxyaquic FragiudalFs
Nolin-----	Fine-silty, mixed, active, mesic Dystric Fluventic Eutrudepts
Otwood-----	Fine-silty, mixed, active, mesic Oxyaquic FragiudalFs
Patton-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Robertsville-----	Fine-silty, mixed, semiactive, mesic Typic FragiaqualFs
Sandview-----	Fine-silty, mixed, active, mesic Typic HapludalFs
Sciotoville-----	Fine-silty, mixed, active, mesic Aquic FragiudalFs
Shrouds-----	Fine, mixed, active, mesic Typic HapludalFs
Tilsit-----	Fine-silty, mixed, semiactive, mesic Typic FragiudulFs
Udarents-----	Udarents
Udorthents-----	Udorthents
Ultic Udarents-----	Ultic Udarents
Weikert-----	Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts
Weinbach-----	Fine-silty, mixed, active, mesic Aeric FragiaqualFs
Wheeling-----	Fine-loamy, mixed, active, mesic Ultic HapludalFs
Woolper-----	Fine, mixed, active, mesic Typic Argiudolls
*Zipp-----	Fine, mixed, active, nonacid, mesic Typic Endoaquepts

# Soil Survey of Jefferson County, Kentucky

Table 23.—Geologic Systems, Formations, Members, and Associated Soils

System	Formation	Member	Description of material	Associated soils
Quaternary	local alluvium	---	non-acid alluvium--silt, clay, sand, and gravel	Boonewood, Elk, Lawrence, Lindsides, Melvin, Newark, Nolin, Patton, Robertsville, Woolper, Zipp
	non-local alluvium	---	non-acid alluvium--silt, clay, sand, and gravel	Chagrin, Combs, Elk, Huntington, Lindsides, Nelse, Otwood, Robertsville, Sciotoville, Weinbach, Wheeling
	loess	---	silt and minor sand	Alford (thick loess), Crider (thin loess), Lawrence (thin loess), Robertsville (thin loess), Sandview (thin loess)
Mississippian	Harrodsburg	---	limestone	Caneyville
	Borden	Muldraugh and Holtsclaw	shale and dolomitic siltstone	Carpenter, Gilpin
		Nancy	shale and siltstone	Gilpin, Tilsit
		Kenwood and New Providence	siltstone and shale	Gilpin, Weikert
Devonian	New Albany	---	black fissile shale	Soils of minor extent
	Sellersburg and Jeffersonville	---	dolomite and limestone	Caneyville, Crider, Nicholson
Silurian	Louisville	---	dolomitic limestone	Caneyville, Crider, Nicholson
	Waldron	---	shale	Beasley, Shrouts
	Laurel, Osgood, and Brassfield	---	dolomite, shale, and limestone	Beasley, Faywood, Shrouts
Ordovician	Drakes	Saluda	dolomite	Beasley, Shrouts, Faywood
		Bardstown	dolomite, limestone, and shale	Beasley, Faywood, Shrouts
		Rowland	limestone and shale	Faywood, Woolper
	Grant Lake	---	limestone and shale	Faywood, Nicholson, Sandview, Beasley

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