

**037ZA—Zaar silty clay, 1 to 3 percent slopes****Map Unit Composition**

Zaar: 96 percent  
 Minor components: 4 percent

**Component Descriptions****Zaar**

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Hillslope on upland  
*Hillslope position:* Footslope  
*Parent material:* Ancient alluvium and/or clayey colluvium and/or residuum weathered from shale  
*Slope:* 1 to 3 percent  
*Drainage class:* Moderately well drained  
*Slowest permeability:* Slow (About 0.06 in/hr)  
*Available water capacity:* Moderate (About 8.5 inches)  
*Shrink-swell potential:* Very high (About 11.5 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* About 14 to 22 inches  
*Runoff class:* High  
*Ecological site:* Clay Upland (pe35-42)  
*Land capability (nonirrigated):* 3e

*Typical Profile:*

H1—0 to 16 inches; silty clay  
 H2—16 to 38 inches; silty clay  
 H3—38 to 53 inches; silty clay  
 H4—53 to 60 inches; silty clay

**Minor Components****Dennis**

*Composition:* About 1 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 1 to 4 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Loamy Upland (pe35-42)

**Parsons**

*Composition:* About 1 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 1 to 3 percent  
*Drainage class:* Somewhat poorly drained  
*Ecological site:* Clay Upland (pe35-42)

**Lula**

*Composition:* About 1 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 1 to 3 percent  
*Depth to restrictive feature:* 40 to 60 inches to bedrock (lithic)  
*Drainage class:* Well drained

*Ecological site:* Loamy Upland (pe35-42)

**Ringo**

*Composition:* About 1 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 3 to 9 percent  
*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)  
*Drainage class:* Moderately well drained  
*Ecological site:* Clay Upland (pe35-42)

**Be—Bates loam, 1 to 3 percent slopes****Map Unit Composition**

Bates: 85 percent  
 Minor components: 15 percent

**Component Descriptions****Bates**

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Hillslope on upland  
*Hillslope position:* Summit  
*Parent material:* Sandy and silty residuum weathered from sandstone, unspecified over sandy and silty residuum weathered from sandstone-shale  
*Slope:* 1 to 3 percent  
*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)  
*Drainage class:* Well drained  
*Slowest permeability:* Moderately slow (About 0.20 in/hr)  
*Available water capacity:* Low (About 5.5 inches)  
*Shrink-swell potential:* Moderate (About 3.0 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* More than 6 feet  
*Runoff class:* Medium  
*Ecological site:* Loamy Upland (pe35-42)  
*Land capability (nonirrigated):* 2e

*Typical Profile:*

H1—0 to 13 inches; loam  
 H2—13 to 21 inches; loam  
 H3—21 to 34 inches; clay loam  
 Cr—34 to 38 inches; weathered bedrock

**Minor Components****Collinsville**

*Composition:* About 10 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 4 to 15 percent

*Depth to restrictive feature:* 4 to 20 inches to bedrock (lithic)  
*Drainage class:* Well drained  
*Ecological site:* Shallow Sandstone (pe35-42)

**Dennis**

*Composition:* About 5 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 1 to 3 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Loamy Upland (pe35-42)

**Bf—Bates loam, 3 to 6 percent slopes****Map Unit Composition**

Bates: 85 percent  
 Minor components: 15 percent

**Component Descriptions****Bates**

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Hillslope on upland  
*Hillslope position:* Backslope  
*Parent material:* Sandy and silty residuum weathered from sandstone, unspecified over sandy and silty residuum weathered from sandstone-shale  
*Slope:* 3 to 6 percent  
*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)  
*Drainage class:* Well drained  
*Slowest permeability:* Moderately slow (About 0.20 in/hr)  
*Available water capacity:* Low (About 3.8 inches)  
*Shrink-swell potential:* Moderate (About 3.0 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* More than 6 feet  
*Runoff class:* Medium  
*Ecological site:* Loamy Upland (pe35-42)  
*Land capability (nonirrigated):* 3e

*Typical Profile:*

H1—0 to 7 inches; loam  
 H2—7 to 12 inches; loam  
 H3—12 to 24 inches; clay loam  
 Cr—24 to 28 inches; weathered bedrock

**Minor Components****Collinsville**

*Composition:* About 10 percent

*Geomorphic Position:* hillslope on upland  
*Slope:* 4 to 15 percent  
*Depth to restrictive feature:* 4 to 20 inches to bedrock (lithic)  
*Drainage class:* Well drained  
*Ecological site:* Shallow Sandstone (pe35-42)

**Dennis**

*Composition:* About 5 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 1 to 3 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Loamy Upland (pe35-42)

**Bh—Bates-Collinsville complex, 4 to 15 percent slopes****Map Unit Composition**

Bates: 45 percent  
 Collinsville: 40 percent  
 Minor components: 15 percent

**Component Descriptions****Bates**

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Hillslope on upland  
*Hillslope position:* Backslope  
*Parent material:* Sandy and silty residuum weathered from sandstone, unspecified over sandy and silty residuum weathered from sandstone-shale  
*Slope:* 3 to 6 percent  
*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)  
*Drainage class:* Well drained  
*Slowest permeability:* Moderately slow (About 0.20 in/hr)  
*Available water capacity:* Low (About 4.0 inches)  
*Shrink-swell potential:* Moderate (About 3.0 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* More than 6 feet  
*Runoff class:* High  
*Ecological site:* Loamy Upland (pe35-42)  
*Land capability (nonirrigated):* 6e

*Typical Profile:*

H1—0 to 8 inches; loam  
 H2—8 to 12 inches; loam  
 H3—13 to 27 inches; clay loam  
 Cr—27 to 28 inches; weathered bedrock

**Collinsville***MLRA:* 112 - Cherokee Prairies*Landform:* Hillslope on upland*Hillslope position:* Backslope*Parent material:* Sandstone residuum*Slope:* 4 to 15 percent*Depth to restrictive feature:* 4 to 20 inches to bedrock (lithic)*Drainage class:* Well drained*Slowest permeability:* Slow (About 0.17 in/hr)*Available water capacity:* Very low (About 1.7 inches)*Shrink-swell potential:* Low (About 1.5 LEP)*Flooding hazard:* None*Depth to seasonal water saturation:* More than 6 feet*Runoff class:* Medium*Ecological site:* Shallow Sandstone (pe35-42)*Land capability (nonirrigated):* 6e*Typical Profile:*

H1—0 to 14 inches; fine sandy loam

R—14 to 18 inches; unweathered bedrock

*Slope:* 4 to 15 percent*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic); inches to bedrock (lithic)*Drainage class:* Well drained*Slowest permeability:* Moderately slow (About 0.20 in/hr)*Available water capacity:* Low (About 5.4 inches)*Shrink-swell potential:* Moderate (About 4.5 LEP)*Flooding hazard:* None*Depth to seasonal water saturation:* More than 6 feet*Runoff class:* High*Ecological site:* Savannah (pe35-42)*Land capability (nonirrigated):* 6e*Typical Profile:*

H1—0 to 5 inches; fine sandy loam

H2—5 to 12 inches; fine sandy loam

H3—12 to 17 inches; clay loam

H4—17 to 36 inches; clay loam

Cr—36 to 46 inches; weathered bedrock

R—46 to 50 inches; unweathered bedrock

**Minor Components****Dennis***Composition:* About 10 percent*Geomorphic Position:* hillslope on upland*Slope:* 1 to 3 percent*Drainage class:* Moderately well drained*Ecological site:* Loamy Upland (pe35-42)**Eram***Composition:* About 5 percent*Geomorphic Position:* hillslope on upland*Slope:* 6 to 12 percent*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)*Drainage class:* Moderately well drained*Ecological site:* Clay Upland (pe35-42)**Bo—Bolivar-Hector fine sandy loams, 4 to 15 percent slopes  
Map Unit Composition**

Bolivar: 55 percent

Hector: 40 percent

Minor components: 5 percent

**Component Descriptions****Bolivar***MLRA:* 112 - Cherokee Prairies*Landform:* Ridge on upland*Hillslope position:* Backslope*Parent material:* Residuum weathered from sandstone**Hector***MLRA:* 112 - Cherokee Prairies*Landform:* Ridge on upland*Hillslope position:* Shoulder*Parent material:* Residuum weathered from sandstone*Slope:* 4 to 15 percent*Depth to restrictive feature:* 10 to 20 inches to bedrock (lithic)*Drainage class:* Well drained*Slowest permeability:* Moderately rapid (About 2.00 in/hr)*Available water capacity:* Very low (About 1.8 inches)*Shrink-swell potential:* Low (About 1.5 LEP)*Flooding hazard:* None*Depth to seasonal water saturation:* More than 6 feet*Runoff class:* Medium*Ecological site:* Shallow Savannah (pe35-42)*Land capability (nonirrigated):* 6e*Typical Profile:*

H1—0 to 3 inches; fine sandy loam

H2—3 to 7 inches; fine sandy loam

H3—7 to 15 inches; fine sandy loam

R—15 to 19 inches; unweathered bedrock

**Minor Components****Dennis***Composition:* About 5 percent*Geomorphic Position:* hillslope on upland*Slope:* 1 to 3 percent*Drainage class:* Moderately well drained

*Ecological site:* Loamy Upland (pe35-42)

## **Br—Brazilton silty clay loam, 1 to 3 percent slopes**

### **Map Unit Composition**

Brazilton: 100 percent

### **Component Descriptions**

#### **Brazilton**

*MLRA:* 112 - Cherokee Prairies

*Landform:* Ridge on upland, terrace on upland

*Hillslope position:* Backslope, summit

*Parent material:* Mine spoil or earthy fill

*Slope:* 1 to 3 percent

*Drainage class:* Moderately well drained

*Slowest permeability:* Very slow (About 0.00 in/hr)

*Available water capacity:* Moderate (About 8.8 inches)

*Shrink-swell potential:* High (About 7.5 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* More than 6 feet

*Runoff class:* Very high

*Ecological site:* Clay Upland (pe35-42)

*Land capability (nonirrigated):* 3e

*Typical Profile:*

H1—0 to 8 inches; silty clay loam

H2—8 to 40 inches; silty clay

H3—40 to 60 inches; extremely gravelly silty clay

*Parent material:* Residuum weathered from limestone

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* 20 to 40 inches to bedrock (lithic)

*Drainage class:* Well drained

*Slowest permeability:* Moderately slow (About 0.20 in/hr)

*Available water capacity:* Low (About 5.4 inches)

*Shrink-swell potential:* High (About 8.0 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* More than 6 feet

*Runoff class:* Medium

*Ecological site:* Loamy Upland (pe35-42)

*Land capability (nonirrigated):* 2e

*Typical Profile:*

H1—0 to 7 inches; silt loam

H2—7 to 12 inches; silt loam

H3—12 to 28 inches; silty clay loam

R—28 to 32 inches; unweathered bedrock

### **Minor Components**

#### **Shidler**

*Composition:* About 10 percent

*Geomorphic Position:* ridge on upland

*Slope:* 4 to 8 percent

*Depth to restrictive feature:* to 20 inches to bedrock (lithic)

*Drainage class:* Well drained

*Ecological site:* Shallow Limy (pe35-42)

#### **Zaar**

*Composition:* About 5 percent

*Geomorphic Position:* upland

hillslope

*Slope:* 0 to 2 percent

*Drainage class:* Somewhat poorly drained

*Ecological site:* Clay Upland (pe35-42)

## **Cd—Catoosa silt loam, 0 to 2 percent slopes**

### **Map Unit Composition**

Catoosa: 85 percent

Minor components: 15 percent

### **Component Descriptions**

#### **Catoosa**

*MLRA:* 112 - Cherokee Prairies

*Landform:* Ridge on upland

*Hillslope position:* Summit

## **Ce—Cherokee silt loam, 0 to 1 percent slopes**

### **Map Unit Composition**

Cherokee: 100 percent

### **Component Descriptions**

#### **Cherokee**

*MLRA:* 112 - Cherokee Prairies

*Landform:* Paleoterrace on upland

*Hillslope position:* Summit

*Parent material:* Loess over ancient clayey alluvium

*Slope:* 0 to 1 percent

*Drainage class:* Somewhat poorly drained

*Slowest permeability:* Slow (About 0.06 in/hr)

*Available water capacity:* High (About 9.2 inches)

*Shrink-swell potential:* Very high (About 12.0 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* About 6 to 18 inches

*Runoff class:* Medium

*Ecological site:* Clay Upland (pe35-42)

*Land capability (nonirrigated):* 2s

*Typical Profile:*

H1—0 to 7 inches; silt loam

H2—7 to 14 inches; silt loam

H3—14 to 36 inches; clay

H4—36 to 47 inches; clay

H5—47 to 60 inches; silty clay loam

## **Ck—Clarksville very Cherty silt loam, 10 to 30 percent slopes**

### **Map Unit Composition**

Clarksville: 100 percent

### **Component Descriptions**

#### **Clarksville**

*MLRA:* 116A - Ozark Highland

*Landform:* Hillslope on upland

*Hillslope position:* Backslope

*Parent material:* Residuum weathered from cherty limestone

*Slope:* 10 to 30 percent

*Drainage class:* Somewhat excessively drained

*Slowest permeability:* Moderate (About 0.60 in/hr)

*Available water capacity:* Low (About 5.2 inches)

*Shrink-swell potential:* Low (About 1.5 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* More than 6 feet

*Runoff class:* Medium

*Ecological site:* Savannah (pe37-45)

*Land capability (nonirrigated):* 7s

*Typical Profile:*

H1—0 to 4 inches; very gravelly silt loam

H2—4 to 23 inches; very gravelly silt loam

H3—23 to 32 inches; very gravelly silty clay loam

H4—32 to 60 inches; extremely gravelly silty clay loam

## **Db—Dennis silt loam, 1 to 3 percent slopes**

### **Map Unit Composition**

Dennis: 90 percent

Minor components: 10 percent

### **Component Descriptions**

#### **Dennis**

*MLRA:* 112 - Cherokee Prairies

*Landform:* Hillslope on upland

*Hillslope position:* Backslope

*Parent material:* Silty and clayey residuum weathered from shale, unspecified

*Slope:* 1 to 3 percent

*Drainage class:* Moderately well drained

*Slowest permeability:* Very slow (About 0.06 in/hr)

*Available water capacity:* High (About 10.2 inches)

*Shrink-swell potential:* Very high (About 9.0 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* About 10 to 18 inches

*Runoff class:* Medium

*Ecological site:* Loamy Upland (pe35-42)

*Land capability (nonirrigated):* 2e

*Typical Profile:*

H1—0 to 7 inches; silt loam

H2—7 to 11 inches; silt loam

H3—11 to 29 inches; silty clay loam

H4—29 to 46 inches; silty clay

H5—46 to 60 inches; silty clay loam

#### **Minor Components**

##### **Bates**

*Composition:* About 10 percent

*Slope:* 1 to 3 percent

*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)

*Drainage class:* Well drained

*Ecological site:* Loamy Upland (pe35-42)

## **Du—Dumps, Mine**

## Map Unit Composition

Dumps: 100 percent

## Component Descriptions

### Dumps

*MLRA:* 112 - Cherokee Prairies

*Flooding hazard:* None

*Depth to seasonal water saturation:* More than 6 feet

## En—Eram silty clay loam, 3 to 7 percent slopes

## Map Unit Composition

Eram: 90 percent

Minor components: 10 percent

## Component Descriptions

### Eram

*MLRA:* 112 - Cherokee Prairies

*Landform:* Hillslope on upland

*Hillslope position:* Backslope

*Parent material:* Silty and clayey residuum weathered from shale, unspecified

*Slope:* 3 to 7 percent

*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)

*Drainage class:* Moderately well drained

*Slowest permeability:* Slow (About 0.06 in/hr)

*Available water capacity:* Low (About 4.9 inches)

*Shrink-swell potential:* High (About 7.5 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* About 6 to 18 inches

*Runoff class:* High

*Ecological site:* Clay Upland (pe35-42)

*Land capability (nonirrigated):* 4e

### Typical Profile:

H1—0 to 11 inches; silty clay loam

H2—11 to 32 inches; silty clay

Cr—32 to 36 inches; weathered bedrock

## Minor Components

### Zaar

*Composition:* About 10 percent

*Geomorphic Position:* hillslope on upland

*Slope:* 0 to 2 percent

*Drainage class:* Somewhat poorly drained

*Ecological site:* Clay Upland (pe35-42)

## Es—Eram-Shidler silty clay loams, 4 to 12 percent slopes

## Map Unit Composition

Eram: 50 percent

Shidler: 40 percent

Minor components: 10 percent

## Component Descriptions

### Eram

*MLRA:* 112 - Cherokee Prairies

*Landform:* Ridge on upland

*Hillslope position:* Backslope

*Parent material:* Silty and clayey residuum weathered from shale, unspecified

*Slope:* 6 to 12 percent

*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)

*Drainage class:* Moderately well drained

*Slowest permeability:* Slow (About 0.06 in/hr)

*Available water capacity:* Low (About 4.0 inches)

*Shrink-swell potential:* Low (About 2.9 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* About 6 to 18 inches

*Runoff class:* Very high

*Ecological site:* Clay Upland (pe35-42)

*Land capability (nonirrigated):* 6e

### Typical Profile:

H1—0 to 8 inches; silty clay loam

H2—8 to 26 inches; silty clay

Cr—26 to 30 inches; weathered bedrock

### Shidler

*MLRA:* 112 - Cherokee Prairies

*Landform:* Hillslope on upland

*Hillslope position:* Backslope

*Parent material:* Residuum weathered from limestone

*Slope:* 4 to 8 percent

*Depth to restrictive feature:* to 20 inches to bedrock (lithic)

*Drainage class:* Well drained

*Slowest permeability:* Moderately slow (About 0.20 in/hr)

*Available water capacity:* Very low (About 2.4 inches)

*Shrink-swell potential:* Moderate (About 5.3 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* More than 6 feet  
*Runoff class:* High  
*Ecological site:* Shallow Limy (pe35-42)  
*Land capability (nonirrigated):* 7s

*Typical Profile:*  
 H1—0 to 12 inches; silty clay loam  
 R—12 to 16 inches; unweathered bedrock

#### Minor Components

##### Zaar

*Composition:* About 5 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 0 to 2 percent  
*Drainage class:* Somewhat poorly drained  
*Ecological site:* Clay Upland (pe35-42)

##### Dennis

*Composition:* About 5 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 1 to 3 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Loamy Upland (pe35-42)

### Ge—Gerald silt loam, 0 to 2 percent slopes

#### Map Unit Composition

Gerald: 90 percent  
 Minor components: 10 percent

#### Component Descriptions

##### Gerald

*MLRA:* 116A - Ozark Highland  
*Landform:* Ridge on upland  
*Hillslope position:* Summit  
*Parent material:* Loess over residuum weathered from cherty limestone  
*Slope:* 0 to 2 percent  
*Drainage class:* Somewhat poorly drained  
*Slowest permeability:* Very slow (About 0.01 in/hr)  
*Available water capacity:* Low (About 4.6 inches)  
*Shrink-swell potential:* High (About 7.5 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* About 6 to 12 inches  
*Runoff class:* Very high  
*Land capability (nonirrigated):* 3w

*Typical Profile:*  
 H1—0 to 8 inches; silt loam  
 H2—8 to 13 inches; silt loam

H3—13 to 22 inches; silty clay  
 H4—22 to 42 inches; gravelly silty clay loam  
 H5—42 to 60 inches; extremely gravelly silty clay

#### Minor Components

##### Nixa

*Composition:* About 10 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 2 to 9 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Savannah (pe37-45)

### He—Hepler silt loam, occasionally flooded

#### Map Unit Composition

Hepler: 95 percent  
 Minor components: 5 percent

#### Component Descriptions

##### Hepler

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Flood plain on river valley  
*Parent material:* Silty alluvium  
*Slope:* 0 to 1 percent  
*Drainage class:* Somewhat poorly drained  
*Slowest permeability:* Moderately slow (About 0.20 in/hr)  
*Available water capacity:* Very high (About 12.1 inches)  
*Shrink-swell potential:* Moderate (About 4.5 LEP)  
*Flooding hazard:* Occasional  
*Depth to seasonal water saturation:* About 12 to 36 inches  
*Runoff class:* Low  
*Ecological site:* Loamy Lowland (pe35-42)  
*Land capability (nonirrigated):* 2w

##### Typical Profile:

H1—0 to 7 inches; silt loam  
 H2—7 to 23 inches; silt loam  
 H3—23 to 60 inches; silty clay loam

#### Minor Components

##### Osage

*Composition:* About 5 percent  
*Slope:* 0 to 2 percent  
*Drainage class:* Poorly drained  
*Ecological site:* Clay Lowland (pe35-42)

**Hf—Hepler silt loam, frequently flooded****Map Unit Composition**

Hepler: 95 percent  
 Minor components: 5 percent

**Component Descriptions****Hepler**

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Flood plain on river valley  
*Parent material:* Silty alluvium  
*Slope:* 0 to 3 percent  
*Drainage class:* Somewhat poorly drained  
*Slowest permeability:* Moderately slow (About 0.20 in/hr)  
*Available water capacity:* Very high (About 12.4 inches)  
*Shrink-swell potential:* Moderate (About 4.5 LEP)  
*Flooding hazard:* Frequent  
*Depth to seasonal water saturation:* About 12 to 36 inches  
*Runoff class:* Low  
*Ecological site:* Loamy Lowland (pe35-42)  
*Land capability (nonirrigated):* 5w

*Typical Profile:*

H1—0 to 10 inches; silt loam  
 H2—10 to 30 inches; silt loam  
 H3—30 to 60 inches; silty clay loam

**Minor Components****Osage**

*Composition:* About 5 percent  
*Slope:* 0 to 2 percent  
*Drainage class:* Poorly drained  
*Ecological site:* Clay Lowland (pe35-42)

**Ka—Kanima silty clay loam, 3 to 10 percent slopes****Map Unit Composition**

Kanima: 100 percent

**Component Descriptions****Kanima**

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Hillslope on upland

*Hillslope position:* Backslope  
*Parent material:* Residuum  
*Slope:* 3 to 10 percent  
*Drainage class:* Well drained  
*Slowest permeability:* Moderately slow (About 0.20 in/hr)  
*Available water capacity:* Low (About 4.5 inches)  
*Shrink-swell potential:* High (About 6.5 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* More than 6 feet  
*Runoff class:* High  
*Land capability (nonirrigated):* 6s

*Typical Profile:*

H1—0 to 6 inches; gravelly silty clay loam  
 H2—6 to 60 inches; extremely gravelly silty clay loam

**Kn—Kanima silty clay loam, 15 to 50 percent slopes****Map Unit Composition**

Kanima: 95 percent  
 Minor components: 5 percent

**Component Descriptions****Kanima**

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Hillslope on upland  
*Hillslope position:* Backslope  
*Parent material:* Residuum  
*Slope:* 15 to 50 percent  
*Drainage class:* Well drained  
*Slowest permeability:* Moderately slow (About 0.20 in/hr)  
*Available water capacity:* Low (About 4.5 inches)  
*Shrink-swell potential:* High (About 6.5 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* More than 6 feet  
*Runoff class:* Very high  
*Land capability (nonirrigated):* 7s

*Typical Profile:*

H1—0 to 6 inches; gravelly silty clay loam  
 H2—6 to 60 inches; extremely gravelly silty clay loam

**Minor Components****Water**

*Composition:* About 5 percent



*Depth to seasonal water saturation:* More than 6 feet

## **Ln—Lanton silt loam, occasionally flooded**

### **Map Unit Composition**

Lanton: 95 percent  
Minor components: 5 percent

### **Component Descriptions**

#### **Lanton**

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Flood plain on river valley  
*Parent material:* Silty and clayey alluvium  
*Slope:* 0 to 1 percent  
*Drainage class:* Somewhat poorly drained  
*Slowest permeability:* Slow (About 0.06 in/hr)  
*Available water capacity:* High (About 9.9 inches)  
*Shrink-swell potential:* Moderate (About 4.3 LEP)  
*Flooding hazard:* Occasional  
*Depth to seasonal water saturation:* About 12 to 24 inches  
*Runoff class:* High  
*Ecological site:* Loamy Lowland (pe35-42)  
*Land capability (nonirrigated):* 2w

#### *Typical Profile:*

H1—0 to 7 inches; silt loam  
H2—7 to 21 inches; silt loam  
H3—21 to 39 inches; silty clay loam  
H4—39 to 60 inches; silty clay

#### **Minor Components**

##### **Osage**

*Composition:* About 5 percent  
*Slope:* 0 to 2 percent  
*Drainage class:* Poorly drained  
*Ecological site:* Clay Lowland (pe35-42)

## **M-W—Miscellaneous Water**

### **Map Unit Composition**

Miscellaneous Water: 100 percent

### **Component Descriptions**

#### **Miscellaneous Water**

*MLRA:* -

## **Ns—Nixa Cherty silt loam, 2 to 9 percent slopes**

### **Map Unit Composition**

Nixa: 95 percent  
Minor components: 5 percent

### **Component Descriptions**

#### **Nixa**

*MLRA:* 116A - Ozark Highland  
*Landform:* Hillslope on upland  
*Hillslope position:* Backslope  
*Parent material:* Loamy residuum weathered from cherty limestone  
*Slope:* 2 to 9 percent  
*Drainage class:* Moderately well drained  
*Slowest permeability:* Very slow (About 0.00 in/hr)  
*Available water capacity:* Moderate (About 6.2 inches)  
*Shrink-swell potential:* Moderate (About 4.5 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* More than 6 feet  
*Runoff class:* Very high  
*Ecological site:* Savannah (pe37-45)  
*Land capability (nonirrigated):* 4s

#### *Typical Profile:*

H1—0 to 5 inches; gravelly silt loam  
H2—5 to 13 inches; very gravelly silt loam  
H3—13 to 18 inches; very gravelly silt loam  
H4—18 to 28 inches; extremely gravelly silt loam  
H5—28 to 60 inches; extremely gravelly silty clay loam

#### **Minor Components**

##### **Tonti**

*Composition:* About 5 percent  
*Geomorphic Position:* ridge on upland  
*Slope:* 2 to 5 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Savannah (pe37-45)

## **Os—Osage silty clay, occasionally flooded**

## Map Unit Composition

Osage: 90 percent  
Minor components: 10 percent

## Component Descriptions

### Osage

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Flood plain on river valley  
*Parent material:* Clayey alluvium  
*Slope:* 0 to 2 percent  
*Drainage class:* Poorly drained  
*Slowest permeability:* Very slow (About 0.00 in/hr)  
*Available water capacity:* Moderate (About 6.4 inches)  
*Shrink-swell potential:* Very high (About 12.5 LEP)  
*Flooding hazard:* Occasional  
*Ponding hazard:* Occasional  
*Depth to seasonal water saturation:* About 6 to 18 inches  
*Runoff class:* Negligible  
*Ecological site:* Clay Lowland (pe35-42)  
*Land capability (nonirrigated):* 3w

#### Typical Profile:

H1—0 to 6 inches; silty clay  
H2—6 to 17 inches; silty clay  
H3—17 to 60 inches; clay

### Minor Components

#### Lanton

*Composition:* About 5 percent  
*Slope:* 0 to 1 percent  
*Drainage class:* Somewhat poorly drained  
*Ecological site:* Loamy Lowland (pe35-42)

#### Verdigris

*Composition:* About 5 percent  
*Slope:* 0 to 2 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Loamy Lowland (pe35-42)

## Pr—Parsons silt loam, 0 to 2 percent slopes

## Map Unit Composition

Parsons: 90 percent  
Minor components: 10 percent

## Component Descriptions

### Parsons

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Paleoterrace on upland  
*Hillslope position:* Summit  
*Parent material:* Loess over ancient clayey alluvium and/or residuum weathered from shale  
*Slope:* 0 to 2 percent  
*Drainage class:* Somewhat poorly drained  
*Slowest permeability:* Very slow (About 0.01 in/hr)  
*Available water capacity:* High (About 9.1 inches)  
*Shrink-swell potential:* Very high (About 11.0 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* About 5 to 9 inches  
*Runoff class:* Very high  
*Ecological site:* Clay Upland (pe35-42)  
*Land capability (nonirrigated):* 2s

*Typical Profile:*  
H1—0 to 8 inches; silt loam  
H2—8 to 14 inches; silt loam  
H3—14 to 31 inches; clay  
H4—31 to 60 inches; silty clay

### Minor Components

#### Dennis

*Composition:* About 5 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 1 to 3 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Loamy Upland (pe35-42)

#### Zaar

*Composition:* About 5 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 0 to 2 percent  
*Drainage class:* Somewhat poorly drained  
*Ecological site:* Clay Upland (pe35-42)

## Qu—Pits, Quarries

## Map Unit Composition

Quarries: 100 percent

## Component Descriptions

### Quarries

*MLRA:* -  
*Drainage class:* Well drained

*Depth to seasonal water saturation:* More than 6 feet

## **Se—Secesh silt loam, rarely flooded**

### **Map Unit Composition**

Secesh: 95 percent  
Minor components: 5 percent

### **Component Descriptions**

#### **Secesh**

*MLRA:* 116A - Ozark Highland  
*Landform:* Flood plain on river valley  
*Parent material:* Alluvium derived from limestone and sandstone  
*Slope:* 0 to 2 percent  
*Drainage class:* Well drained  
*Slowest permeability:* Moderate (About 0.60 in/hr)  
*Available water capacity:* Low (About 5.3 inches)  
*Shrink-swell potential:* Low (About 1.5 LEP)  
*Flooding hazard:* Rare  
*Depth to seasonal water saturation:* More than 6 feet  
*Runoff class:* Medium  
*Land capability (nonirrigated):* 2s

#### *Typical Profile:*

H1—0 to 10 inches; silt loam  
H2—10 to 16 inches; silty clay loam  
H3—16 to 24 inches; silty clay loam  
H4—25 to 60 inches; extremely gravelly clay loam

#### **Minor Components**

##### **Hepler**

*Composition:* About 5 percent  
*Slope:* 0 to 1 percent  
*Drainage class:* Somewhat poorly drained  
*Ecological site:* Loamy Lowland (pe35-42)

## **Sf—Secesh silt loam, channeled**

### **Map Unit Composition**

Secesh: 91 percent  
Minor components: 9 percent

## **Component Descriptions**

#### **Secesh**

*MLRA:* 116A - Ozark Highland  
*Landform:* Flood plain on river valley  
*Parent material:* Alluvium derived from limestone and sandstone  
*Slope:* 1 to 4 percent  
*Drainage class:* Well drained  
*Slowest permeability:* Moderate (About 0.60 in/hr)  
*Available water capacity:* Low (About 5.3 inches)  
*Shrink-swell potential:* Low (About 1.5 LEP)  
*Flooding hazard:* Frequent  
*Depth to seasonal water saturation:* More than 6 feet  
*Runoff class:* Medium  
*Land capability (nonirrigated):* 5w

#### *Typical Profile:*

H1—0 to 9 inches; silt loam  
H2—9 to 16 inches; silty clay loam  
H3—16 to 25 inches; very gravelly silty clay loam  
H4—25 to 60 inches; extremely gravelly clay loam

#### **Minor Components**

##### **Clarksville**

*Composition:* About 4 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 10 to 30 percent  
*Drainage class:* Somewhat excessively drained  
*Ecological site:* Savannah (pe37-45)

##### **Nixa**

*Composition:* About 3 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 2 to 9 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Savannah (pe37-45)

##### **Verdigris**

*Composition:* About 2 percent  
*Slope:* 0 to 2 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Loamy Lowland (pe35-42)

## **To—Taloka silt loam, 0 to 1 percent slopes**

### **Map Unit Composition**

Taloka: 90 percent  
Minor components: 10 percent

## Component Descriptions

### Taloka

*MLRA:* 112 - Cherokee Prairies

*Landform:* Paleoterrace on upland

*Hillslope position:* Summit

*Parent material:* Loess over ancient clayey alluvium and/or residuum weathered from shale

*Slope:* 0 to 1 percent

*Drainage class:* Moderately well drained

*Slowest permeability:* Slow (About 0.06 in/hr)

*Available water capacity:* High (About 10.7 inches)

*Shrink-swell potential:* Very high (About 11.0 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* About 8 to 20 inches

*Runoff class:* Medium

*Ecological site:* Loamy Upland (pe35-42)

*Land capability (nonirrigated):* 2w

#### Typical Profile:

H1—0 to 8 inches; silt loam

H2—8 to 21 inches; silt loam

H3—21 to 45 inches; silty clay

H4—45 to 60 inches; silty clay loam

### Minor Components

#### Dennis

*Composition:* About 10 percent

*Geomorphic Position:* hillslope on upland

*Slope:* 1 to 3 percent

*Drainage class:* Moderately well drained

*Ecological site:* Loamy Upland (pe35-42)

## Tt—Tonti silt loam, 2 to 5 percent slopes

### Map Unit Composition

Tonti: 95 percent

Minor components: 5 percent

## Component Descriptions

### Tonti

*MLRA:* 116A - Ozark Highland

*Landform:* Ridge on upland

*Hillslope position:* Backslope

*Parent material:* Residuum weathered from cherty limestone

*Slope:* 2 to 5 percent

*Drainage class:* Moderately well drained

*Slowest permeability:* Very slow (About 0.01 in/hr)

*Available water capacity:* Low (About 5.3 inches)

*Shrink-swell potential:* Moderate (About 3.0 LEP)

*Flooding hazard:* None

*Depth to seasonal water saturation:* More than 6 feet

*Runoff class:* Very high

*Ecological site:* Savannah (pe37-45)

*Land capability (nonirrigated):* 4e

#### Typical Profile:

H1—0 to 9 inches; silt loam

H2—9 to 13 inches; gravelly silt loam

H3—13 to 19 inches; gravelly silty clay loam

H4—19 to 28 inches; very gravelly silty clay loam

H5—28 to 60 inches; extremely gravelly silty clay loam

### Minor Components

#### Nixa

*Composition:* About 5 percent

*Geomorphic Position:* hillslope on upland

*Slope:* 2 to 9 percent

*Drainage class:* Moderately well drained

*Ecological site:* Savannah (pe37-45)

## Vb—Verdigris silt loam, occasionally flooded

### Map Unit Composition

Verdigris: 95 percent

Minor components: 5 percent

## Component Descriptions

### Verdigris

*MLRA:* 112 - Cherokee Prairies

*Landform:* Flood plain on river valley

*Parent material:* Silty alluvium

*Slope:* 0 to 2 percent

*Drainage class:* Moderately well drained

*Slowest permeability:* Moderate (About 0.60 in/hr)

*Available water capacity:* High (About 12.0 inches)

*Shrink-swell potential:* Moderate (About 4.5 LEP)

*Flooding hazard:* Occasional

*Depth to seasonal water saturation:* More than 6 feet

*Runoff class:* Medium

*Ecological site:* Loamy Lowland (pe35-42)

*Land capability (nonirrigated):* 2w

*Typical Profile:*

H1—0 to 7 inches; silt loam  
H2—7 to 45 inches; silt loam  
H3—45 to 60 inches; silt loam

**Minor Components**

**Osage**

*Composition:* About 5 percent  
*Slope:* 0 to 2 percent  
*Drainage class:* Poorly drained  
*Ecological site:* Clay Lowland (pe35-42)

**W—Water**

**Map Unit Composition**

Water: 100 percent

**Component Descriptions**

**Water**

*MLRA:* 112 - Cherokee Prairies  
*Depth to seasonal water saturation:* More than 6 feet

**Wa—Waben Cherty silt loam, 2 to 5 percent slopes**

**Map Unit Composition**

Waben: 90 percent  
Minor components: 10 percent

**Component Descriptions**

**Waben**

*MLRA:* 116A - Ozark Highland  
*Landform:* Terrace on upland  
*Parent material:* Alluvium derived from cherty limestone and/or colluvium derived from cherty limestone  
*Slope:* 2 to 5 percent  
*Drainage class:* Well drained  
*Slowest permeability:* Moderate (About 0.60 in/hr)  
*Available water capacity:* Low (About 5.9 inches)  
*Shrink-swell potential:* Low (About 1.5 LEP)  
*Flooding hazard:* None

*Depth to seasonal water saturation:* More than 6 feet

*Runoff class:* Low

*Ecological site:* Loamy Upland (pe37-45)

*Land capability (nonirrigated):* 3s

*Typical Profile:*

H1—0 to 10 inches; gravelly silt loam  
H2—10 to 18 inches; gravelly silt loam  
H3—18 to 60 inches; extremely gravelly silty clay loam

**Minor Components**

**Clarksville**

*Composition:* About 5 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 10 to 30 percent  
*Drainage class:* Somewhat excessively drained  
*Ecological site:* Savannah (pe37-45)

**Nixa**

*Composition:* About 5 percent  
*Geomorphic Position:* hillslope on upland  
*Slope:* 2 to 9 percent  
*Drainage class:* Moderately well drained  
*Ecological site:* Savannah (pe37-45)

**Za—Zaar silty clay, 0 to 2 percent slopes**

**Map Unit Composition**

Zaar: 90 percent  
Minor components: 10 percent

**Component Descriptions**

**Zaar**

*MLRA:* 112 - Cherokee Prairies  
*Landform:* Hillslope on upland  
*Hillslope position:* Footslope  
*Parent material:* Ancient alluvium and/or clayey colluvium and/or residuum weathered from shale  
*Slope:* 0 to 2 percent  
*Drainage class:* Somewhat poorly drained  
*Slowest permeability:* Slow (About 0.06 in/hr)  
*Available water capacity:* Moderate (About 8.3 inches)  
*Shrink-swell potential:* Very high (About 13.0 LEP)  
*Flooding hazard:* None  
*Depth to seasonal water saturation:* About 9 to 21 inches  
*Runoff class:* High

*Ecological site:* Clay Upland (pe35-42)

*Land capability (nonirrigated):* 3w

*Typical Profile:*

H1—0 to 8 inches; silty clay

H2—8 to 15 inches; silty clay

H3—15 to 36 inches; silty clay

H4—36 to 60 inches; silty clay

**Minor Components**

**Hepler**

*Composition:* About 5 percent

*Slope:* 0 to 1 percent

*Drainage class:* Somewhat poorly drained

*Ecological site:* Loamy Lowland (pe35-42)

**Parsons**

*Composition:* About 5 percent

*Geomorphic Position:* paleoterrace on  
upland

*Slope:* 0 to 2 percent

*Drainage class:* Somewhat poorly drained

*Ecological site:* Clay Upland (pe35-42)