

**045KC—Kennebec Soils,
channeled****Map Unit Composition**

Kennebec: 88 percent
 Minor components: 12 percent

Component Descriptions**Kennebec**

MLRA: 112 - Cherokee Prairies
Landform: Flood plain on river valley
Parent material: Silty alluvium
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Very high (About 12.6 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: About 40 to 44 inches
Runoff class: Low
Ecological site: Loamy Lowland (pe30-37)
Land capability (nonirrigated): 5w

Typical Profile:

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

Minor Components**Wabash**

Composition: About 3 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe30-37)

Vinland

Composition: About 3 percent
Slope: 3 to 7 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Ecological site: Loamy Upland (pe35-42)

Sogn

Composition: About 3 percent
Slope: 5 to 20 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Ecological site: Shallow Limy (pe35-42)

Martin

Composition: About 3 percent
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

**045MO—Martin-Oska silty clay
loams, 3 to 6 percent slopes****Map Unit Composition**

Martin: 40 percent
 Oska: 30 percent
 Minor components: 30 percent

Component Descriptions**Martin**

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey colluvium derived from limestone and shale over silty and clayey residuum weathered from limestone and shale
Slope: 3 to 6 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.7 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 22 to 26 inches
Runoff class: High
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 9 inches; silty clay loam
 H2—9 to 14 inches; silty clay loam
 H3—14 to 60 inches; silty clay

Oska

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from limestone and shale
Slope: 3 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: Moderate (About 6.3 inches)
Shrink-swell potential: High (About 7.5 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): 3e

Typical Profile:

H1—0 to 5 inches; silty clay loam
 H2—5 to 38 inches; silty clay
 R—38 to 42 inches; unweathered bedrock

Minor Components

Unnamed Soils

Composition: About 25 percent
Slope: 3 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Sogn

Composition: About 3 percent
Slope: 5 to 20 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Ecological site: Shallow Limy (pe30-37)

Vinland

Composition: About 2 percent
Slope: 5 to 20 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Ecological site: Loamy Upland (pe30-37)

045OE—Oska silty clay loam, 3 to 6 percent slopes

Map Unit Composition

Oska: 88 percent
 Minor components: 12 percent

Component Descriptions

Oska

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland

Parent material: Silty and clayey residuum weathered from limestone and shale
Slope: 3 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Moderate (About 6.3 inches)
Shrink-swell potential: High (About 7.5 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): 3e

Typical Profile:

H1—0 to 5 inches; silty clay loam
 H2—5 to 38 inches; silty clay
 R—38 to 42 inches; unweathered bedrock

Minor Components

Gymer

Composition: About 3 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 8 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-37)

Martin

Composition: About 3 percent
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Vinland

Composition: About 3 percent
Slope: 3 to 7 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Ecological site: Loamy Upland (pe35-42)

Sogn

Composition: About 3 percent
Slope: 7 to 15 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Ecological site: Shallow Limy (pe30-37)

045SW—Sogn-Vinland complex, 5 to 20 percent slopes

Map Unit Composition

Sogn: 55 percent
 Vinland: 30 percent
 Minor components: 15 percent

Component Descriptions

Sogn

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Loamy residuum weathered from limestone
Slope: 5 to 20 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Very low (About 2.6 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Shallow Limy (pe30-37)
Land capability (nonirrigated): 7s

Typical Profile:

H1—0 to 13 inches; silty clay loam
 R—13 to 17 inches;

Vinland

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from shale
Slope: 5 to 20 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 3.5 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Upland (pe30-37)

Land capability (nonirrigated): 6s

Typical Profile:

H1—0 to 12 inches; silty clay loam
 H2—12 to 16 inches; silty clay loam
 Cr—16 to 20 inches; weathered bedrock

Minor Components

Martin

Composition: About 5 percent
Slope: 3 to 8 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe30-37)

Oska

Composition: About 5 percent
Slope: 2 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-37)

Sibleyville

Composition: About 5 percent
Slope: 7 to 12 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-37)

045SX—Vinland-Rock outcrop complex, 20 to 40 percent slopes

Map Unit Composition

Rock outcrop: 60 percent
 Vinland: 26 percent
 Minor components: 14 percent

Component Descriptions

Rock outcrop

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Slope: 20 to 40 percent
Depth to restrictive feature: 0 inches to bedrock (lithic)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high
Land capability (nonirrigated): 8

Vinland*MLRA:* 112 - Cherokee Prairies*Landform:* Hillslope on upland*Parent material:* Sandy and silty residuum weathered from shale*Slope:* 20 to 30 percent*Depth to restrictive feature:* 10 to 20 inches to bedrock (paralithic)*Drainage class:* Somewhat excessively drained*Slowest permeability:* Moderate (About 0.60 in/hr)*Available water capacity:* Low (About 3.5 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:* Loamy Upland (pe35-42)*Land capability (nonirrigated):* 6e*Typical Profile:*

H1—0 to 7 inches; silty clay loam

H2—7 to 17 inches; silty clay loam

Cr—17 to 21 inches; weathered bedrock

Minor Components**Sogn***Composition:* About 10 percent*Slope:* 15 to 20 percent*Depth to restrictive feature:* 4 to 20 inches to bedrock (lithic)*Drainage class:* Somewhat excessively drained*Ecological site:* Shallow Limy (pe30-37)**Martin***Composition:* About 2 percent*Slope:* 7 to 11 percent*Drainage class:* Moderately well drained*Ecological site:* Loamy Upland (pe35-42)**Oska***Composition:* About 2 percent*Slope:* 3 to 6 percent*Depth to restrictive feature:* 20 to 40 inches to bedrock (lithic)*Drainage class:* Well drained*Ecological site:* Loamy Upland (pe35-42)**045VM—Vinland-Martin complex, 7 to 15 percent slopes****Map Unit Composition**

Vinland: 40 percent

Martin: 25 percent

Minor components: 35 percent

Component Descriptions**Vinland***MLRA:* 112 - Cherokee Prairies*Landform:* Hillslope on upland*Parent material:* Sandy and silty residuum weathered from shale*Slope:* 7 to 15 percent*Depth to restrictive feature:* 10 to 20 inches to bedrock (paralithic)*Drainage class:* Somewhat excessively drained*Slowest permeability:* Moderate (About 0.60 in/hr)*Available water capacity:* Low (About 3.5 inches)*Shrink-swell potential:* Moderate (About 4.5 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):* 6e*Typical Profile:*

H1—0 to 7 inches; silty clay loam

H2—7 to 17 inches; silty clay loam

Cr—17 to 21 inches; weathered bedrock

Martin*MLRA:* 112 - Cherokee Prairies*Landform:* Hillslope on upland*Parent material:* Silty and clayey colluvium derived from limestone and shale over silty and clayey residuum weathered from limestone and shale*Slope:* 7 to 11 percent*Drainage class:* Moderately well drained*Slowest permeability:* Slow (About 0.06 in/hr)*Available water capacity:* High (About 9.7 inches)*Shrink-swell potential:* High (About 7.5 LEP)*Flooding hazard:* None*Depth to seasonal water saturation:* About 22 to 26 inches*Runoff class:* Very high*Ecological site:* Loamy Upland (pe35-42)*Land capability (nonirrigated):* 4e*Typical Profile:*

H1—0 to 9 inches; silty clay loam

H2—9 to 14 inches; silty clay loam

H3—14 to 60 inches; silty clay

Minor Components**Unnamed Soil**

Composition: About 20 percent
Slope: 3 to 7 percent
Depth to restrictive feature: 10 to 20 inches
 to bedrock (paralithic)
Drainage class: Somewhat excessively
 drained
Ecological site: Loamy Upland (pe35-42)

Sibleyville

Composition: About 8 percent
Slope: 7 to 15 percent
Depth to restrictive feature: 20 to 40 inches
 to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Sogn

Composition: About 7 percent
Slope: 7 to 15 percent
Depth to restrictive feature: 4 to 20 inches to
 bedrock (lithic)
Drainage class: Somewhat excessively
 drained
Ecological site: Shallow Limy (pe30-37)

045WS—Woodson silt loam, 1 to 3 percent slopes**Map Unit Composition**

Woodson: 90 percent
 Minor components: 10 percent

Component Descriptions**Woodson**

MLRA: 112 - Cherokee Prairies
Landform: Divide on upland
Parent material: Silty and clayey alluvium over
 silty and clayey residuum weathered from
 clayey
 shale
Slope: 1 to 3 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Very slow (About 0.00
 in/hr)
Available water capacity: High (About 9.1
 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 4 to 9
 inches
Runoff class: Very high
Ecological site: Clay Upland (pe35-42)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 11 inches; silt loam
 H2—11 to 45 inches; silty clay
 H3—45 to 78 inches; silty clay loam

Minor Components**Martin**

Composition: About 5 percent
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Pawnee

Composition: About 5 percent
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe30-37)

059CM—Clareson-Eram silty clay loams, 3 to 15 percent slopes**Map Unit Composition**

Clareson: 55 percent
 Eram: 30 percent
 Minor components: 15 percent

Component Descriptions**Clareson**

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey residuum
 weathered from limestone
Slope: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to
 bedrock (lithic)
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Low (About 3.2 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: Shallow Flats (pe35-42)
Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 7 inches; silty clay loam
 BA—7 to 15 inches; silty clay loam
 Bt—15 to 26 inches; flaggy silty clay loam

R—26 to 30 inches; unweathered bedrock

Eram

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Hillslope position: Backslope

Parent material: Silty and clayey residuum weathered from shale

Slope: 3 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 5.6 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 9 to 14 inches

Runoff class: Very high

Ecological site: Clay Upland (pe35-42)

Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 7 inches; silty clay loam

H2—7 to 38 inches; silty clay

Cr—38 to 42 inches; weathered bedrock

Minor Components

Bates

Composition: About 10 percent

Geomorphic Position: hillslope on upland

Slope: 3 to 7 percent

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

Drainage class: Well drained

Ecological site: Loamy Upland (pe35-42)

Rock outcrop

Composition: About 5 percent

Geomorphic Position: hillslope on upland

059EA—Eram-Lebo silty clay loams, 7 to 12 percent slopes

Map Unit Composition

Eram: 55 percent

Lebo: 35 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

Slope: 7 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 5.6 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 9 to 14 inches

Runoff class: Very high

Ecological site: Clay Upland (pe35-42)

Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 7 inches; silty clay loam

H2—7 to 38 inches; silty clay

Cr—38 to 42 inches; weathered bedrock

Lebo

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Hillslope position: Backslope

Parent material: Loamy residuum weathered from sandstone and shale

Slope: 8 to 12 percent

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

Drainage class: Well drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: Low (About 5.5 inches)

Shrink-swell potential: Moderate (About 4.5 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): 6e

Typical Profile:

H1—0 to 14 inches; silty clay loam

H2—14 to 28 inches; very channery silty clay loam

Cr—28 to 36 inches; weathered bedrock

Minor Components

Clareson

Composition: About 5 percent

Geomorphic Position: hillslope on upland

Slope: 3 to 15 percent

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

Drainage class: Well drained

Ecological site: Shallow Flats (pe35-42)

Dennis

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 2 to 6 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

059EC—Eram-Lula complex, 3 to 7 percent slopes

Map Unit Composition

Eram: 60 percent
 Lula: 25 percent
 Minor components: 15 percent

Component Descriptions

Eram

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey residuum weathered from shale
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 5.6 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 9 to 14 inches
Runoff class: High
Ecological site: Clay Upland (pe35-42)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 7 inches; silty clay loam
 H2—7 to 38 inches; silty clay
 Cr—38 to 46 inches; weathered bedrock

Lula

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope, summit
Parent material: Fine-silty residuum weathered from limestone
Slope: 3 to 5 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (lithic)
Drainage class: Well drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: Moderate (About 7.9 inches)

Shrink-swell potential: High (About 7.5 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): 3e

Typical Profile:

H1—0 to 7 inches; silt loam
 H2—7 to 12 inches; silty clay loam
 H3—12 to 44 inches; silty clay loam
 R—44 to 52 inches; unweathered bedrock

Minor Components

Bates

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Kenoma

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 1 to 4 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe35-42)

Olpe

Composition: About 5 percent
Geomorphic Position: paleoterrace on upland
Slope: 1 to 5 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

111CA—Chase silty clay loam, occasionally flooded

Map Unit Composition

Chase: 100 percent

Component Descriptions

Chase

MLRA: 112 - Cherokee Prairies
Landform: Flood plain on river valley

Parent material: Silty and clayey alluvium
Slope: 0 to 2 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 10.0 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Occasional
Depth to seasonal water saturation: About 24 to 48 inches
Runoff class: High
Ecological site: Loamy Lowland (pe35-42)
Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 17 inches; silty clay loam
 H2—17 to 46 inches; silty clay loam
 H3—46 to 60 inches; silty clay loam

Minor Components

Osage

111EA—Elmont silt loam, 1 to 4 percent slopes

Map Unit Composition

Elmont: 100 percent

Component Descriptions

Elmont

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from shale-siltstone
Slope: 1 to 4 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 9.3 inches)
Shrink-swell potential: Moderate (About 4.5 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 12 inches; silt loam
 H2—12 to 32 inches; silty clay loam
 H3—32 to 48 inches; silty clay loam
 Cr—48 to 59 inches; unweathered bedrock

111EF—Eram And Bates Soils, 6 to 15 percent slopes

Map Unit Composition

Eram: 60 percent
 Bates: 40 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: 6 to 15 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 4.1 inches)
Shrink-swell potential: High (About 7.5 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 7 inches; silt loam
 H2—7 to 27 inches; silty clay
 Cr—27 to 59 inches; weathered bedrock

Bates

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from sandstone, unspecified over sandy and silty residuum weathered from sandstone-shale
Slope: 6 to 8 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained

Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Moderate (About 6.2 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: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 7 inches; loam
 H2—7 to 31 inches; clay loam
 H3—31 to 35 inches; gravelly sandy clay loam
 H4—35 to 35 inches; unweathered bedrock

177AN—Kennebec silt loam, channeled

Map Unit Composition

Kennebec: 90 percent
 Minor components: 10 percent

Component Descriptions

Kennebec

MLRA: 112 - Cherokee Prairies
Landform: Flood plain on 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: Very high (About 13.4 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: About 40 to 44 inches
Runoff class: Low
Ecological site: Loamy Lowland (pe30-37)
Land capability (nonirrigated): 5w

Typical Profile:

H1—0 to 48 inches; silt loam
 H2—48 to 80 inches; silty clay loam

Minor Components

Wabash

Composition: About 10 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe30-37)

177BK—Martin-Kennebec complex, 0 to 12 percent slopes

Map Unit Composition

Martin: 54 percent
 Kennebec: 43 percent
 Minor components: 3 percent

Component Descriptions

Martin

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey colluvium derived from limestone and shale over silty and clayey residuum weathered from limestone and shale
Slope: 3 to 12 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.9 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 21 to 26 inches
Runoff class: Very high
Ecological site: Loamy Upland (pe30-37)
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 12 inches; silty clay loam
 H2—12 to 17 inches; silty clay loam
 H3—17 to 72 inches; silty clay

Kennebec

MLRA: 112 - Cherokee Prairies
Landform: Flood plain on 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: Very high (About 13.4 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)

Flooding hazard: Frequent
Depth to seasonal water saturation: About 40 to 44 inches
Runoff class: Low
Ecological site: Loamy Lowland (pe30-37)
Land capability (nonirrigated): 5w

Typical Profile:

H1—0 to 48 inches; silt loam
 H2—48 to 80 inches; silt loam

Minor Components

Wabash

Composition: About 3 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe30-37)

177BR—Fluents, Frequently flooded

Map Unit Composition

Fluents: 97 percent
 Minor components: 3 percent

Component Descriptions

Fluents

MLRA: 112 - Cherokee Prairies
Landform: Flood plain on valley
Parent material: Fine-silty alluvium
Slope: 0 to 2 percent
Drainage class: Moderately well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Moderate (About 8.9 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: About 33 to 38 inches
Runoff class: Low
Land capability (nonirrigated): 6w

Typical Profile:

H1—0 to 60 inches; silty clay loam

Minor Components

Wabash

Composition: About 3 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained

Ecological site: Clay Lowland (pe30-37)

177DM—Dwight-Martin silty clay loams, 1 to 3 percent slopes

Map Unit Composition

Dwight: 60 percent
 Martin: 30 percent
 Minor components: 10 percent

Component Descriptions

Dwight

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from cherty limestone
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.0 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 Pan (pe35-42)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 5 inches; silty clay loam
 H2—5 to 22 inches; clay
 H3—22 to 50 inches; silty clay
 2C—50 to 80 inches; silty clay

Martin

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey colluvium derived from limestone and shale over silty and clayey residuum weathered from limestone and shale
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.9 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None

Depth to seasonal water saturation: About 21 to 26 inches
Runoff class: High
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 12 inches; silty clay loam
 H2—12 to 17 inches; silty clay loam
 H3—17 to 60 inches; silty clay

Minor Components

Labette

Composition: About 5 percent
Slope: 1 to 3 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

Ladysmith

Composition: About 5 percent
Slope: 1 to 3 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Upland (pe35-42)

Typical Profile:

H1—0 to 5 inches; silty clay loam
 H2—5 to 22 inches; clay
 H3—22 to 50 inches; silty clay
 2C—50 to 80 inches;

Minor Components

Martin

Composition: About 5 percent
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Labette

Composition: About 5 percent
Slope: 1 to 3 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

Ladysmith

Composition: About 5 percent
Slope: 1 to 3 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Upland (pe35-42)

177DW—Dwight silty clay loam, 1 to 3 percent slopes

Map Unit Composition

Dwight: 85 percent
 Minor components: 15 percent

Component Descriptions

Dwight

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from cherty limestone
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.0 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 Pan (pe35-42)
Land capability (nonirrigated): 4e

177EN—Elmont silt loam, 7 to 12 percent slopes

Map Unit Composition

Elmont: 90 percent
 Minor components: 10 percent

Component Descriptions

Elmont

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from shale and siltstone
Slope: 7 to 12 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 9.2 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: Limy Upland (pe35-42)

Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 7 inches; silt loam

H2—7 to 22 inches; silty clay loam

H3—22 to 50 inches; silty clay loam

Cr—50 to 60 inches; unweathered bedrock

Minor Components

Sibleyville

Composition: About 5 percent

Slope: 7 to 11 percent

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

Drainage class: Well drained

Ecological site: Loamy Upland (pe35-42)

Martin

Composition: About 5 percent

Slope: 7 to 11 percent

Drainage class: Moderately well drained

Ecological site: Loamy Upland (pe35-42)

177LB—Labette silty clay loam, 3 to 6 percent slopes

Map Unit Composition

Labette: 85 percent

Minor components: 15 percent

Component Descriptions

Labette

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Parent material: Silty and clayey residuum weathered from limestone and shale

Slope: 3 to 6 percent

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

Drainage class: Well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: Moderate (About 6.6 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: High

Ecological site: Limy Upland (pe35-42)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 13 inches; silty clay loam

H2—13 to 38 inches; silty clay

R—38 to 42 inches; unweathered bedrock

Minor Components

Vinland

Composition: About 5 percent

Slope: 4 to 10 percent

Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)

Drainage class: Somewhat excessively drained

Ecological site: Limy Upland (pe35-42)

Sogn

Composition: About 5 percent

Slope: 3 to 20 percent

Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)

Drainage class: Somewhat excessively drained

Ecological site: Shallow Limy (pe30-37)

Martin

Composition: About 5 percent

Slope: 3 to 7 percent

Drainage class: Moderately well drained

Ecological site: Loamy Upland (pe35-42)

177LC—Labette silty clay loam, 3 to 6 percent slopes, eroded

Map Unit Composition

Labette: 95 percent

Minor components: 5 percent

Component Descriptions

Labette

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Parent material: Silty and clayey residuum weathered from limestone and shale

Slope: 3 to 6 percent

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

Drainage class: Well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: Low (About 5.9 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: High

Ecological site: Limy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 4 inches; silty clay loam
 H2—4 to 36 inches; silty clay
 R—36 to 40 inches; unweathered bedrock

Minor Components

Martin

Composition: About 5 percent
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

**177LD—Ladysmith silty clay loam,
 0 to 1 percent slopes**

Map Unit Composition

Ladysmith: 90 percent
 Minor components: 10 percent

Component Descriptions

Ladysmith

MLRA: 112 - Cherokee Prairies
Landform: Paleoterrace on upland
Parent material: Clayey alluvium
Slope: 0 to 1 percent
Drainage class: Somewhat poorly 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: About 21 to 26 inches
Runoff class: Very high
Ecological site: Clay Upland (pe35-42)
Land capability (nonirrigated): 2s

Typical Profile:

H1—0 to 10 inches; silty clay loam
 H2—10 to 48 inches; silty clay
 H3—48 to 60 inches; silty clay

Minor Components

Martin

Composition: About 5 percent
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Labette

Composition: About 5 percent
Slope: 1 to 3 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

**177LM—Ladysmith silty clay loam,
 1 to 3 percent slopes**

Map Unit Composition

Ladysmith: 85 percent
 Minor components: 15 percent

Component Descriptions

Ladysmith

MLRA: 112 - Cherokee Prairies
Landform: Paleoterrace on upland
Parent material: Clayey alluvium
Slope: 1 to 3 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Impermeable (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: About 22 to 26 inches
Runoff class: Very high
Ecological site: Clay Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 10 inches; silty clay loam
 H2—10 to 48 inches; silty clay
 H3—48 to 60 inches; silty clay

Minor Components

Martin

Composition: About 5 percent
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Labette

Composition: About 5 percent
Slope: 1 to 3 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

Pawnee

Composition: About 5 percent
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe30-37)

177LS—Ladysmith silty clay loam, 1 to 3 percent slopes, eroded

Map Unit Composition

Ladysmith: 100 percent

Component Descriptions

Ladysmith

MLRA: 112 - Cherokee Prairies
Landform: Paleoterrace on upland
Parent material: Clayey alluvium
Slope: 1 to 3 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Impermeable (About 0.00 in/hr)
Available water capacity: Moderate (About 8.4 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 21 to 26 inches
Runoff class: Very high
Ecological site: Clay Upland (pe35-42)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 6 inches; silty clay loam
 H2—6 to 48 inches; silty clay
 H3—48 to 60 inches; silty clay

177MF—Martin silty clay loam, 7 to 11 percent slopes

Map Unit Composition

Martin: 90 percent
 Minor components: 10 percent

Component Descriptions

Martin

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey colluvium derived from limestone and shale over silty and clayey residuum weathered from limestone and shale
Slope: 7 to 11 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.9 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 21 to 26 inches
Runoff class: Very high
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 12 inches; silty clay loam
 H2—12 to 17 inches; silty clay loam
 H3—17 to 60 inches; silty clay

Minor Components**Elmont**

Composition: About 5 percent
Slope: 7 to 11 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

Martin

Composition: About 5 percent
Slope: 7 to 11 percent
Drainage class: Moderately well drained
Ecological site: Limy Upland (pe35-42)

177RE—Reading silty clay loam, 0 to 2 percent slopes, rarely flooded

Map Unit Composition

Reading: 85 percent
 Minor components: 15 percent

Component Descriptions

Reading

MLRA: 112 - Cherokee Prairies
Landform: Stream terrace on valley
Parent material: Silty alluvium
Slope: 0 to 2 percent

Drainage class: Well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 11.6 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Lowland (pe30-37)
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 14 inches; silty clay loam
 H2—14 to 56 inches; silty clay loam
 H3—56 to 70 inches; silty clay loam

Minor Components

Wabash

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe30-37)

Kennebec

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Moderately well drained
Ecological site: Loamy Lowland (pe30-37)

Muir

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe30-37)

177SU—Sibleyville loam, 7 to 11 percent slopes

Map Unit Composition

Sibleyville: 90 percent
 Minor components: 10 percent

Component Descriptions

Sibleyville

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from sandstone and shale
Slope: 7 to 11 percent

Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Moderate (About 7.2 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: Loamy Upland (pe35-42)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 14 inches; loam
 H2—14 to 38 inches; sandy clay loam
 Cr—38 to 42 inches; weathered bedrock

Minor Components

Vinland

Composition: About 5 percent
Slope: 4 to 10 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Ecological site: Limy Upland (pe35-42)

Elmont

Composition: About 5 percent
Slope: 7 to 11 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

177SV—Sogn-Vinland complex, 3 to 25 percent slopes

Map Unit Composition

Sogn: 55 percent
 Vinland: 25 percent
 Minor components: 20 percent

Component Descriptions

Sogn

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Loamy residuum weathered from limestone
Slope: 3 to 20 percent

Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Very low (About 2.0 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Shallow Limy (pe35-42)
Land capability (nonirrigated): 7s

Typical Profile:

H1—0 to 10 inches; silty clay loam
 R—10 to 14 inches; unweathered bedrock

Vinland

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from shale
Slope: 3 to 25 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 3.1 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Limy Upland (pe35-42)
Land capability (nonirrigated): 6s

Typical Profile:

H1—0 to 6 inches; silty clay loam
 H2—6 to 15 inches; channery silty clay loam
 Cr—15 to 19 inches; weathered bedrock

Minor Components

Elmont

Composition: About 5 percent
Slope: 7 to 12 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

Martin

Composition: About 5 percent
Slope: 7 to 11 percent

Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Rock outcrop

Composition: About 5 percent

Labette

Composition: About 5 percent
Slope: 3 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

**177SW—Vinland-Sogn complex,
15 to 45 percent slopes**

Map Unit Composition

Stony Steep Land: 60 percent
 Vinland: 26 percent
 Minor components: 14 percent

Component Descriptions

Stony Steep Land

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Slope: 15 to 45 percent
Drainage class: Excessively drained
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Land capability (nonirrigated): 8

Vinland

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from shale
Slope: 15 to 30 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 3.7 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe30-37)

Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 11 inches; silty clay loam
H2—11 to 17 inches; silty clay loam
Cr—17 to 20 inches; weathered bedrock

Minor Components

Sogn

Composition: About 10 percent
Slope: 15 to 20 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Ecological site: Shallow Limy (pe30-37)

Martin

Composition: About 2 percent
Slope: 7 to 11 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Labette

Composition: About 2 percent
Slope: 3 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

197CE—Chase silty clay loam, rarely flooded

Map Unit Composition

Chase: 85 percent
Minor components: 15 percent

Component Descriptions

Chase

MLRA: 112 - Cherokee Prairies
Landform: Stream terrace 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 9.7 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: About 22 to 26 inches
Runoff class: High
Ecological site: Loamy Lowland (pe30-36)

Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 12 inches; silty clay loam
H2—12 to 56 inches; silty clay
H3—56 to 60 inches; silty clay

Minor Components

Ivan

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe30-36)

Reading

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Ecological site: Loamy Lowland (pe30-36)

Wabash

Composition: About 4 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe30-37)

Unnamed Hydric Soil (saturation)

Composition: About 1 percent
Slope: 0 to 2 percent
Drainage class: Poorly drained

197CS—Clime-Sogn silty clay loams, 5 to 20 percent slopes

Map Unit Composition

Clime: 60 percent
Sogn: 20 percent
Minor components: 20 percent

Component Descriptions

Clime

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey residuum weathered from calcareous shale
Slope: 5 to 20 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Moderate (About 6.2 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: Limy Upland (pe30-36)
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 13 inches; silty clay loam
 H2—13 to 30 inches; silty clay
 H3—30 to 37 inches; silty clay loam
 Cr—37 to 41 inches; weathered bedrock

Sogn

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Loamy residuum weathered from limestone
Slope: 5 to 20 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 3.4 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Shallow Limy (pe30-36)
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 13 inches; silty clay loam
 H2—13 to 17 inches; channery silty clay loam
 R—17 to 21 inches; unweathered bedrock

Minor Components

Labette

Composition: About 5 percent
Geomorphic Position: ridge on upland
Slope: 2 to 5 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-36)

Ivan

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe30-36)

Martin

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Rock outcrop

Composition: About 5 percent
Geomorphic Position: hillslope on upland

1971B—Irwin silty clay loam, 1 to 3 percent slopes

Map Unit Composition

Irwin: 80 percent
 Minor components: 20 percent

Component Descriptions

Irwin

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Shoulder
Parent material: Silty and clayey residuum weathered from clayey shale
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.6 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 (pe30-36)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 12 inches; silty clay loam
 H2—12 to 42 inches; silty clay, clay
 H3—42 to 60 inches; clay

Minor Components

Ladysmith

Composition: About 10 percent
Geomorphic Position: divide on upland
Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Upland (pe30-36)

Dwight

Composition: About 10 percent
Slope: 1 to 3 percent

Drainage class: Moderately well drained
Ecological site: Clay Pan (pe35-42)

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

197WE—Wamego silty clay loam, 3 to 7 percent slopes

Rock outcrop

Composition: About 5 percent

Map Unit Composition

Wamego: 75 percent
 Minor components: 25 percent

Component Descriptions

Wamego

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Sandy and silty residuum weathered from shale
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Low (About 5.0 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: High
Ecological site: Loamy Upland (pe30-37)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 10 inches; silt loam
 H2—10 to 27 inches; silty clay loam
 Cr—27 to 31 inches; weathered bedrock

Minor Components

Clime

Composition: About 10 percent
Geomorphic Position: hillslope on upland
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)

Elmont

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-37)

Martin

AED—Arents, Earthen Dam

Map Unit Composition

Arents, Earthen Dam: 100 percent

Component Descriptions

Arents, Earthen Dam

MLRA: 112 - Cherokee Prairies
Depth to seasonal water saturation: More than 6 feet
Land capability (nonirrigated): 8

Bd—Bates loam, 3 to 7 percent slopes

Map Unit Composition

Bates: 90 percent
 Minor components: 10 percent

Component Descriptions

Bates

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from sandstone, unspecified over sandy and silty residuum weathered from sandstone-shale
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 5.7 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: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

A—0 to 15 inches; loam
 Bt—15 to 23 inches; loam
 BC—23 to 30 inches; gravelly fine sandy loam
 Cr—30 to 34 inches; unweathered bedrock

Minor Components

Dennis

Composition: About 5 percent
Slope: 2 to 6 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Eram

Composition: About 3 percent
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe35-42)

Olpe

Composition: About 2 percent
Slope: 1 to 5 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Cm—Clareson-Eram complex, 3 to 15 percent slopes

Map Unit Composition

Clareson: 55 percent
 Eram: 30 percent
 Minor components: 15 percent

Component Descriptions

Clareson

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from limestone
Slope: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Low (About 3.2 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: Shallow Flats (pe35-42)
Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 8 inches; silty clay loam
 AB—8 to 16 inches; silty clay loam
 Bt—16 to 24 inches; very flaggy silty clay loam
 R—24 to 32 inches; unweathered bedrock

Eram

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey residuum weathered from shale
Slope: 3 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 4.3 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 9 to 14 inches
Runoff class: Very high
Ecological site: Clay Upland (pe35-42)
Land capability (nonirrigated): 6e

Typical Profile:

Ap—0 to 9 inches; silty clay loam
 Bt—9 to 28 inches; silty clay
 Cr—28 to 32 inches; weathered bedrock

Minor Components

Rock outcrop

Composition: About 10 percent

Bates

Composition: About 5 percent
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Cs—Clime-Sogn complex, 3 to 15 percent slopes

Map Unit Composition

Clime: 65 percent
Sogn: 20 percent
Minor components: 15 percent

Component Descriptions

Clime

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey residuum weathered from calcareous shale
Slope: 3 to 15 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 5.3 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: Limy Upland (pe35-42)
Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 7 inches; silty clay
Bw—7 to 15 inches; silty clay
C—15 to 32 inches; silty clay loam
Cr—32 to 36 inches; unweathered bedrock

Sogn

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Loamy residuum weathered from limestone
Slope: 3 to 15 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Very low (About 1.6 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium
Ecological site: Shallow Limy (pe35-42)
Land capability (nonirrigated): 6s

Typical Profile:

A—0 to 8 inches; silty clay loam
R—8 to 12 inches; unweathered bedrock

Minor Components

Rock outcrop

Composition: About 10 percent

Lula

Composition: About 4 percent
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)

Summit

Composition: About 1 percent
Geomorphic Position: hillslope upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Dn—Dennis silt loam, 2 to 6 percent slopes

Map Unit Composition

Dennis: 90 percent
Minor components: 10 percent

Component Descriptions

Dennis

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from shale, unspecified
Slope: 2 to 6 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.5 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 9 to 14 inches
Runoff class: High
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

A1—0 to 9 inches; silt loam
 A2—9 to 14 inches; silty clay loam
 BA—14 to 23 inches; silty clay loam
 Bt—23 to 60 inches; silty clay

Minor Components**Eram**

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe35-42)

Bates

Composition: About 5 percent
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Bt—5 to 37 inches; silty clay
 BC—37 to 60 inches; silty clay

Minor Components**Lula**

Composition: About 5 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)

Dennis

Composition: About 3 percent
Slope: 2 to 6 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Summit

Composition: About 2 percent
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Ds—Dwight silt loam, 0 to 3 percent slopes**Map Unit Composition**

Dwight: 90 percent
 Minor components: 10 percent

Component Descriptions**Dwight**

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from limestone, cherty
Slope: 0 to 3 percent
Drainage class: Moderately well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 7.9 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 Pan (pe35-42)
Land capability (nonirrigated): 4e

Typical Profile:

A—0 to 5 inches; silt loam

Ed—Elmont loam, 3 to 7 percent slopes**Map Unit Composition**

Elmont: 85 percent
 Minor components: 15 percent

Component Descriptions**Elmont**

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from shale and siltstone
Slope: 3 to 7 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 10.3 inches)
Shrink-swell potential: Moderate (About 4.5 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:

A—0 to 8 inches; loam
AB—8 to 16 inches; loam
Bt—16 to 42 inches; clay loam
BC—42 to 52 inches; clay loam
Cr—52 to 60 inches; unweathered bedrock

Minor Components

Eram

Composition: About 10 percent
Geomorphic Position: hillslope on upland
Slope: 3 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)

Kenoma

Composition: About 5 percent
Slope: 1 to 4 percent
Depth to restrictive feature: 40 to 60 inches
to bedrock (lithic)
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe35-42)

EL—Elmont silt loam, 4 to 7 percent slopes

Map Unit Composition

Elmont: 90 percent
Minor components: 10 percent

Component Descriptions

Elmont

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey residuum
weathered from shale and siltstone
Slope: 3 to 7 percent
Depth to restrictive feature: 40 to 60 inches to
bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Moderately slow (About
0.20 in/hr)
Available water capacity: High (About 9.2
inches)
Shrink-swell potential: Moderate (About 4.5
LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6
feet

Runoff class: Medium

Ecological site: Limy Upland (pe35-42)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 7 inches; silt loam
H2—7 to 22 inches; silty clay loam
H3—22 to 50 inches; silty clay loam
Cr—50 to 54 inches; unweathered bedrock

Minor Components

Sibleyville

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches
to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Martin

Composition: About 5 percent
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

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

Map Unit Composition

Eram: 85 percent
Minor components: 15 percent

Component Descriptions

Eram

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey residuum
weathered from shale
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 4.3 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 9 to
14 inches
Runoff class: High
Ecological site: Clay Upland (pe35-42)
Land capability (nonirrigated): 4e

Typical Profile:

Ap—0 to 9 inches; silty clay loam
 Bt—9 to 28 inches; silty clay, silty clay loam
 Cr—28 to 40 inches; weathered bedrock

Minor Components**Clareson**

Composition: About 7 percent
Slope: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Shallow Flats (pe35-42)

Dennis

Composition: About 5 percent
Slope: 2 to 6 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Elmont

Composition: About 3 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Er—Eram silty clay, 3 to 7 percent slopes, eroded**Map Unit Composition**

Eram: 85 percent
 Minor components: 15 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 3.9 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 9 to 14 inches

Runoff class: High

Ecological site: Clay Upland (pe35-42)

Land capability (nonirrigated): 4e

Typical Profile:

Ap—0 to 9 inches; silty clay
 B—9 to 28 inches; silty clay
 Cr—28 to 32 inches; weathered bedrock

Minor Components**Clareson**

Composition: About 7 percent
Slope: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Shallow Flats (pe35-42)

Kenoma

Composition: About 5 percent
Slope: 1 to 4 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (lithic)
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe35-42)

Lebo

Composition: About 3 percent
Slope: 20 to 40 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

INT—Aquolls**Map Unit Composition**

Aquolls: 100 percent

Component Descriptions**Aquolls**

MLRA: 112 - Cherokee Prairies
Landform: Flood plain on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Very poorly drained
Flooding hazard: Occasional
Ponding hazard: Frequent
Depth to seasonal water saturation: About 0 to 2 inches
Runoff class: Negligible
Land capability (nonirrigated): 5w

Typical Profile:

H1—0 to 60 inches; variable

**KB—Kennebec silt loam,
occasionally flooded****Map Unit Composition**

Kennebec: 95 percent

Minor components: 5 percent

Component Descriptions**Kennebec***MLRA:* 112 - Cherokee Prairies*Landform:* Flood plain on valley*Parent material:* Fine-silty alluvium*Slope:* 0 to 2 percent*Drainage class:* Moderately well drained*Slowest permeability:* Moderate (About 0.60 in/hr)*Available water capacity:* Very high (About 13.4 inches)*Shrink-swell potential:* Moderate (About 4.5 LEP)*Flooding hazard:* Occasional*Depth to seasonal water saturation:* About 40 to 44 inches*Runoff class:* Low*Ecological site:* Loamy Lowland (pe35-42)*Land capability (nonirrigated):* 2w*Typical Profile:*

H1—0 to 48 inches; silt loam

H2—48 to 60 inches; silt loam

Minor Components**Wabash***Composition:* About 4 percent*Slope:* 0 to 1 percent*Drainage class:* Poorly drained*Ecological site:* Clay Lowland (pe30-37)**Unnamed Hydric Soil***Composition:* About 1 percent*Slope:* 0 to 2 percent*Drainage class:* Poorly drained**Ke—Kenoma silt loam, 1 to 4
percent slopes****Map Unit Composition**

Kenoma: 85 percent

Minor components: 15 percent

Component Descriptions**Kenoma***MLRA:* 112 - Cherokee Prairies*Landform:* Hillslope on upland*Hillslope position:* Backslope*Parent material:* Silty and clayey residuum weathered from limestone and shale*Slope:* 1 to 4 percent*Depth to restrictive feature:* 40 to 60 inches to bedrock (paralithic)*Drainage class:* Moderately well drained*Slowest permeability:* Very slow (About 0.00 in/hr)*Available water capacity:* Moderate (About 7.7 inches)*Shrink-swell potential:* High (About 7.5 LEP)*Flooding hazard:* None*Depth to seasonal water saturation:* About 9 to 14 inches*Runoff class:* Very high*Ecological site:* Clay Upland (pe35-42)*Land capability (nonirrigated):* 3e*Typical Profile:*

A—0 to 8 inches; silt loam

Bt—8 to 53 inches; silty clay

Cr—53 to 60 inches; unweathered bedrock

Minor Components**Lula***Composition:* About 10 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)**Olpe***Composition:* About 5 percent*Slope:* 1 to 5 percent*Drainage class:* Well drained*Ecological site:* Loamy Upland (pe35-42)

LA—Labette silty clay loam, 1 to 3 percent slopes

Map Unit Composition

Labette: 100 percent

Component Descriptions

Labette

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Parent material: Silty and clayey residuum weathered from limestone-shale

Slope: 1 to 3 percent

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

Drainage class: Well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: Moderate (About 6.4 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: High

Ecological site: Loamy Upland (pe30-36)

Land capability (nonirrigated): 2e

Typical Profile:

H1—0 to 8 inches; silty clay loam

H2—8 to 38 inches; silty clay

R—38 to 38 inches; unweathered bedrock

Slope: 20 to 40 percent

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

Drainage class: Well drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: Low (About 3.4 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: Loamy Upland (pe35-42)

Land capability (nonirrigated): 7e

Typical Profile:

H1—0 to 7 inches; stony silty clay loam

H2—7 to 14 inches; channery silty clay loam

H3—14 to 28 inches; very channery silty clay loam

Cr—28 to 36 inches; weathered bedrock

Rock outcrop

MLRA: 112 - Cherokee Prairies

Landform: Ridge on upland

Hillslope position: Summit

Parent material: Limestone

Drainage class: Well drained

Depth to seasonal water saturation: More than 6 feet

Runoff class: Very high

Land capability (nonirrigated): 8e

Minor Components

Clareson

Composition: About 10 percent

Geomorphic Position: hillslope on upland

Slope: 3 to 15 percent

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

Drainage class: Well drained

Ecological site: Shallow Flats (pe35-42)

Ln—Lebo-Rock outcrop complex, 20 to 40 percent slopes

Map Unit Composition

Lebo: 75 percent

Rock outcrop: 15 percent

Minor components: 10 percent

Component Descriptions

Lebo

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Hillslope position: Backslope

Parent material: Residuum weathered from shale-sandstone

Ls—Lebo-Summit silty clay loams, 7 to 12 percent slopes

Map Unit Composition

Lebo: 55 percent

Summit: 35 percent

Minor components: 10 percent

Component Descriptions

Lebo*MLRA:* 112 - Cherokee Prairies*Landform:* Hillslope on upland*Hillslope position:* Backslope*Parent material:* Residuum weathered from clayey shale*Slope:* 8 to 12 percent*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)*Drainage class:* Well drained*Slowest permeability:* Moderate (About 0.60 in/hr)*Available water capacity:* Low (About 4.8 inches)*Shrink-swell potential:* Moderate (About 4.5 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):* 6e*Typical Profile:*

Ap—0 to 6 inches; silty clay loam

Bw—6 to 22 inches; silty clay loam

C—22 to 30 inches; very channery clay loam

Cr—30 to 34 inches; weathered bedrock

Summit*MLRA:* 112 - Cherokee Prairies*Landform:* Hillslope on upland*Hillslope position:* Backslope*Parent material:* Silty and clayey residuum weathered from calcareous shale*Slope:* 3 to 7 percent*Drainage class:* Moderately well drained*Slowest permeability:* Slow (About 0.06 in/hr)*Available water capacity:* Moderate (About 8.6 inches)*Shrink-swell potential:* High (About 7.5 LEP)*Flooding hazard:* None*Depth to seasonal water saturation:* About 21 to 26 inches*Runoff class:* High*Ecological site:* Loamy Upland (pe35-42)*Land capability (nonirrigated):* 3e*Typical Profile:*

A—0 to 8 inches; silty clay loam

AB—8 to 13 inches; silty clay loam

Bt—13 to 60 inches; silty clay

Minor Components**Clareson***Composition:* About 5 percent*Slope:* 3 to 15 percent*Depth to restrictive feature:* 20 to 40 inches to bedrock (lithic)*Drainage class:* Well drained*Ecological site:* Shallow Flats (pe35-42)**Rock outcrop***Composition:* About 5 percent**LU—Lula silt loam, 1 to 3 percent slopes****Map Unit Composition**

Lula: 85 percent

Minor components: 15 percent

Component Descriptions**Lula***MLRA:* 112 - Cherokee Prairies*Landform:* Hillslope on upland*Hillslope position:* Summit*Parent material:* Residuum weathered from limestone*Slope:* 1 to 3 percent*Depth to restrictive feature:* 40 to 60 inches to bedrock (lithic)*Drainage class:* Well drained*Slowest permeability:* Moderate (About 0.60 in/hr)*Available water capacity:* Moderate (About 7.9 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:* Loamy Upland (pe35-42)*Land capability (nonirrigated):* 2e*Typical Profile:*

A—0 to 8 inches; silt loam

AB—8 to 14 inches; silty clay loam

Bt—14 to 44 inches; silty clay loam

R—44 to 52 inches; unweathered bedrock

Minor Components**Eram***Composition:* About 5 percent*Slope:* 3 to 7 percent*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)*Drainage class:* Moderately well drained*Ecological site:* Clay Upland (pe35-42)

Kenoma

Composition: About 5 percent
Slope: 1 to 4 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (lithic)
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe35-42)

Dwight

Composition: About 5 percent
Slope: 0 to 3 percent
Drainage class: Moderately well drained
Ecological site: Clay Pan (pe35-42)

M-W—Miscellaneous Water**MA—Martin silty clay loam, 3 to 7 percent slopes****Map Unit Composition**

Martin: 85 percent
 Minor components: 15 percent

Component Descriptions**Martin**

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey colluvium derived from limestone and shale over silty and clayey residuum weathered from limestone and shale
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.7 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 21 to 26 inches
Runoff class: High
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 9 inches; silty clay loam
 H2—9 to 14 inches; silty clay loam
 H3—14 to 60 inches; silty clay

Minor Components**Sogn**

Composition: About 3 percent
Geomorphic Position: hillslope on upland
Slope: 7 to 15 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Ecological site: Shallow Limy (pe30-37)

Pawnee

Composition: About 3 percent
Geomorphic Position: hillslope on upland
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe30-37)

Oska

Composition: About 3 percent
Slope: 3 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Gymer

Composition: About 3 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 8 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-37)

Vinland

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Ecological site: Loamy Upland (pe35-42)

Sibleyville

Phase: Eroded
Composition: About 1 percent
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Mb—Mason silt loam, rarely flooded**Map Unit Composition**

Mason: 85 percent
 Minor components: 15 percent

Component Descriptions

Mason

MLRA: 112 - Cherokee Prairies

Landform: Stream terrace on valley

Parent material: Silty alluvium

Slope: 0 to 2 percent

Drainage class: Well drained

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

Available water capacity: High (About 10.6 inches)

Shrink-swell potential: Moderate (About 4.5 LEP)

Flooding hazard: Rare

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Lowland (pe35-42)

Land capability (nonirrigated): 1

Typical Profile:

Ap—0 to 7 inches; silt loam

A—7 to 15 inches; silty clay loam

Bt—15 to 42 inches; silty clay loam

BC—42 to 60 inches; silty clay loam

Minor Components

Osage

Composition: About 10 percent

Slope: 0 to 2 percent

Drainage class: Poorly drained

Ecological site: Clay Lowland (pe35-42)

Dennis

Composition: About 5 percent

Slope: 2 to 6 percent

Drainage class: Moderately well drained

Ecological site: Loamy Upland (pe35-42)

Oe—Olpe-Kenoma complex, 1 to 5 percent slopes

Map Unit Composition

Olpe: 55 percent

Kenoma: 30 percent

Minor components: 15 percent

Component Descriptions

Olpe

MLRA: 112 - Cherokee Prairies

Landform: Paleoterrace on upland

Parent material: Clayey alluvium

Slope: 1 to 5 percent

Drainage class: Well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: Low (About 3.2 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: Loamy Upland (pe35-42)

Land capability (nonirrigated): 4e

Typical Profile:

A—0 to 7 inches; silty clay loam

B—7 to 50 inches; extremely gravelly silty clay loam

B—50 to 60 inches; silty clay

Kenoma

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Parent material: Silty and clayey residuum weathered from limestone-shale

Slope: 1 to 4 percent

Drainage class: Moderately well drained

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

Available water capacity: Moderate (About 8.7 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 9 to 14 inches

Runoff class: Very high

Ecological site: Clay Upland (pe35-42)

Land capability (nonirrigated): 3e

Typical Profile:

Ap—0 to 4 inches; silt loam

A—4 to 10 inches; silt loam

Bt1—10 to 18 inches; silty clay

Bt2—18 to 27 inches; silty clay

Bt3—27 to 41 inches; silty clay

Bt4—41 to 59 inches; silty clay

Bt5—59 to 73 inches; silty clay loam

Minor Components

Bates

Composition: About 7 percent

Slope: 3 to 7 percent

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

Drainage class: Well drained

Ecological site: Loamy Upland (pe35-42)

Eram

Composition: About 5 percent

Geomorphic Position: hillslope on upland

Slope: 3 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)

Lula

Composition: About 3 percent
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)

Op—Orthents, Hilly**Map Unit Composition**

Arents: 100 percent

Component Descriptions**Arents**

MLRA: 112 - Cherokee Prairies
Landform: Upland
Slope: 5 to 30 percent
Drainage class: Moderately well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Low (About 5.2 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
Land capability (nonirrigated): 7s

Typical Profile:

A—0 to 6 inches; silty clay
 C—6 to 80 inches; extremely channery silty clay

Os—Osage silty clay loam, occasionally flooded**Map Unit Composition**

Osage: 85 percent
 Minor components: 15 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 7.8 inches)
Shrink-swell potential: Very high (About 17.0 LEP)
Flooding hazard: Occasional
Ponding hazard: Occasional
Depth to seasonal water saturation: About 2 to 9 inches
Runoff class: Very high
Ecological site: Clay Lowland (pe35-42)
Land capability (nonirrigated): 2w

Typical Profile:

Ap—0 to 8 inches; silty clay loam
 A—8 to 16 inches; silty clay
 Bg1—16 to 30 inches; silty clay
 Bg2—30 to 60 inches; silty clay

Minor Components**Mason**

Composition: About 10 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe35-42)

Verdigris

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

Ov—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 1 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 17.0 LEP)
Flooding hazard: Occasional
Ponding hazard: Occasional
Depth to seasonal water saturation: About 2 to 9 inches
Runoff class: Very high
Ecological site: Clay Lowland (pe35-42)
Land capability (nonirrigated): 3w

Typical Profile:

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

Minor Components**Verdigris**

Composition: About 10 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe35-42)

Ow—Osage silty clay, Frequently flooded**Map Unit Composition**

Osage: 85 percent
 Minor components: 15 percent

Component Descriptions**Osage**

MLRA: 112 - Cherokee Prairies
Landform: Flood plain on river valley
Parent material: Clayey alluvium
Slope: 0 to 1 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 17.0 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: About 0 to 12 inches
Runoff class: Very high
Ecological site: Clay Lowland (pe35-42)

Land capability (nonirrigated): 5w

Typical Profile:

Ap—0 to 8 inches; silty clay
 A—8 to 16 inches; silty clay
 Bg1—16 to 30 inches; silty clay
 Bg2—30 to 60 inches; silty clay

Minor Components**Verdigris**

Composition: About 15 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe35-42)

Pt—Pits, Quarries

General Considerations: Pits are open excavations from which soil and commonly underlying material have been removed, exposing either rock or other material. Kinds include Pits, mine; Pits, gravel; and Pits, quarry. Commonly, pits are closely associated with Dumps.

SI—Sibleyville loam, 3 to 7 percent slopes**Map Unit Composition**

Sibleyville: 90 percent
 Minor components: 10 percent

Component Descriptions**Sibleyville**

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from sandstone and shale
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Moderate (About 7.2 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: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 14 inches; loam
 H2—14 to 38 inches; sandy clay loam
 Cr—38 to 42 inches; weathered bedrock

Minor Components

Vinland

Composition: About 5 percent
Slope: 4 to 10 percent
Depth to restrictive feature: 10 to 20 inches
 to bedrock (paralithic)
Drainage class: Somewhat excessively
 drained
Ecological site: Limy Upland (pe35-42)

Elmont

Composition: About 5 percent
Slope: 3 to 7 percent
Depth to restrictive feature: 40 to 60 inches
 to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe35-42)

Sn—Summit silty clay loam, 1 to 3 percent slopes

Map Unit Composition

Summit: 100 percent

Component Descriptions

Summit

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey residuum
 weathered from shale, calcareous
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Moderate (About 8.6
 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 21 to
 26 inches
Runoff class: High
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 2e

Typical Profile:

A—0 to 8 inches; silty clay loam
 AB—8 to 13 inches; silty clay loam
 Bt—13 to 60 inches; silty clay

So—Summit silty clay loam, 3 to 7 percent slopes

Map Unit Composition

Summit: 90 percent
 Minor components: 10 percent

Component Descriptions

Summit

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty and clayey residuum
 weathered from calcareous shale
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Moderate (About 8.6
 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 21 to
 26 inches
Runoff class: High
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

A—0 to 8 inches; silty clay loam
 AB—8 to 13 inches; silty clay loam
 Bt—13 to 60 inches; silty clay

Minor Components

Clareson

Composition: About 5 percent
Slope: 3 to 15 percent
Depth to restrictive feature: 20 to 40 inches
 to bedrock (lithic)
Drainage class: Well drained
Ecological site: Shallow Flats (pe35-42)

Lebo

Composition: About 3 percent
Geomorphic Position: hillslope on upland
Slope: 8 to 12 percent
Depth to restrictive feature: 20 to 40 inches
 to bedrock (paralithic)
Drainage class: Well drained

Ecological site: Loamy Upland (pe35-42)

Lula

Composition: About 2 percent
Slope: 3 to 5 percent
Depth to restrictive feature: 40 to 60 inches
 to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Vb—Verdigris silt loam, occasionally flooded

Map Unit Composition

Verdigris: 90 percent
 Minor components: 10 percent

Component Descriptions

Verdigris

MLRA: 112 - Cherokee Prairies
Landform: Flood plain on valley
Parent material: Silty alluvium
Slope: 0 to 2 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60
 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: More than 6
 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe35-42)
Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 14 inches; silt loam
 H2—14 to 60 inches; silt loam

Minor Components

Osage

Composition: About 10 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe35-42)

Vc—Verdigris silt loam, channeled

Map Unit Composition

Verdigris: 88 percent
 Minor components: 12 percent

Component Descriptions

Verdigris

MLRA: 112 - Cherokee Prairies
Landform: Flood plain on valley
Parent material: Silty alluvium
Slope: 0 to 2 percent
Drainage class: 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: Frequent
Depth to seasonal water saturation: More than 6
 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe35-42)
Land capability (nonirrigated): 5w

Typical Profile:

A—0 to 7 inches; silt loam
 Bw—7 to 60 inches; silt loam

Minor Components

Bates

Composition: About 3 percent
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches
 to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

Eram

Composition: About 3 percent
Geomorphic Position: hillside on upland
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches
 to bedrock (paralithic)
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe35-42)

Osage

Composition: About 3 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe35-42)

Rock outcrop

Composition: About 3 percent

Slope: 20 to 40 percent
Depth to restrictive feature: 0 inches to bedrock (lithic)

W—Water

Wo—Woodson silt loam, 0 to 2 percent slopes

Map Unit Composition

Woodson: 100 percent

Component Descriptions

Woodson

MLRA: 112 - Cherokee Prairies

Landform: Divide on upland

Parent material: Silty and clayey alluvium over silty and clayey residuum weathered from shale,

clayey

Slope: 0 to 2 percent

Drainage class: Somewhat poorly drained

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

Available water capacity: Moderate (About 8.7 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 4 to 9 inches

Runoff class: Very high

Ecological site: Clay Upland (pe35-42)

Land capability (nonirrigated): 2s

Typical Profile:

A—0 to 8 inches; silt loam

Bt1—8 to 18 inches; silty clay

Bt2—18 to 28 inches; silty clay

BCg—28 to 36 inches; silty clay

Cg1—36 to 54 inches; silty clay loam

Cg2—54 to 60 inches; clay

General Considerations: This soil is suited to pasture and range. It is moderately well suited to dwellings. The wetness and shrink swell potential are limitations. It is moderately suited to local roads and streets because of low strength, wetness and shrink swell potential. It is well suited to sewage lagoons.