

027KS—Kipson-Sogn silty clay loams, 5 to 20 percent slopes

Map Unit Composition

Kipson: 79 percent
Sogn: 20 percent
Minor components: 1 percent

Component Descriptions

Kipson

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Loamy residuum weathered from limestone and shale
Slope: 5 to 20 percent
Depth to restrictive feature: 7 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 3.6 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: Limy Upland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 8 inches; silty clay loam
H2—8 to 18 inches; silty clay loam
Cr—18 to 18 inches; weathered bedrock

Sogn

MLRA: 75 - Central Loess Plains
Landform: Upland, hillslope
Parent material: Loamy residuum weathered from limestone, unspecified
Slope: 1 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 4.9 LEP)
Flooding hazard: None
Ponding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Shallow Limy (pe30-36)

Land capability (irrigated):

Land capability (nonirrigated): 6s

Typical Profile:

A—0 to 9 inches; silty clay loam
R—9 to 13 inches; unweathered bedrock

Minor Components

Unnamed Hydric Soil

Composition: About 1 percent

Drainage class: Poorly drained

027LH—Lancaster-Hedville complex, 5 to 30 percent slopes

Map Unit Composition

Lancaster: 55 percent
Hedville: 28 percent
Minor components: 17 percent

Component Descriptions

Lancaster

MLRA: 74 - Central Kansas Sandstone Hills
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Fine-loamy residuum weathered from sandstone and shale
Slope: 5 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: Moderate (About 6.4 inches)
Shrink-swell potential: Moderate (About 5.1 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe26-30)
Land capability (irrigated):
Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 9 inches; loam
BA—9 to 18 inches; clay loam
Bt—18 to 26 inches; sandy clay loam
BC—26 to 35 inches; sandy clay loam
Cr—35 to 35 inches; weathered bedrock

Hedville

MLRA: 74 - Central Kansas Sandstone Hills

Landform: Hillslope on upland

Hillslope position: Backslope

Parent material: Loamy residuum

Slope: 10 to 30 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 2.8 inches)

Shrink-swell potential: Low (About 1.6 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: High

Ecological site: Shallow Sandstone (pe26-30)

Land capability (irrigated):

Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 14 inches; cobbly loam

R—14 to 16 inches; unweathered bedrock

Minor Components**Edalgo**

Composition: About 10 percent

Geomorphic Position: hillslope on upland

Slope: 4 to 8 percent

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

Drainage class: Well drained

Ecological site: Clay Upland (pe26-30)

Crete

Composition: About 5 percent

Geomorphic Position: hillslope on upland

Slope: 1 to 3 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe26-30)

Unnamed Hydric Soil

Composition: About 1 percent

Drainage class: Poorly drained

Unnamed Hydric Soils

Composition: About 1 percent

Drainage class: Poorly drained

061CF—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: 76 - Bluestem Hills

Landform: Hillslope on upland

Parent material: Silty and clayey residuum weathered from shale, calcareous

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: Low (About 5.2 inches)

Shrink-swell potential: High (About 8.4 LEP)

Flooding hazard: None

Ponding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Very high

Ecological site: Limy Upland (pe30-36)

Land capability (irrigated):

Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 12 inches; silty clay loam

Bw—12 to 26 inches; silty clay

C—26 to 30 inches; silty clay

Cr—30 to 34 inches; weathered bedrock

Sogn

MLRA: 76 - Bluestem Hills

Landform: Upland, hillslope

Parent material: Loamy residuum weathered from limestone, unspecified

Slope: 1 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 4.9 LEP)

Flooding hazard: None

Ponding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium
Ecological site: Shallow Limy (pe30-36)
Land capability (irrigated):
Land capability (nonirrigated): 6s

Typical Profile:

A—0 to 9 inches; silty clay loam
 R—9 to 13 inches; unweathered bedrock

Minor Components

Tully

Composition: About 12 percent
Geomorphic Position: hillslope on upland
Slope: 8 to 15 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-36)

Tuttle

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 20 to 40 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained

Irwin

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe30-36)

Calcareous, Fine-Loamy, Cumulic Hapludolls

Composition: About 1 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe30-36)

Konza

Composition: About 1 percent
Geomorphic Position: ridge on upland
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Ecological site: Clay Pan (pe30-36)

Kahola

Composition: About 1 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe30-36)

Unnamed Hydric Soil (saturation)

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

**061HE—Haynie silt loam,
Frequently flooded**

Map Unit Composition

Haynie: 55 percent
 Minor components: 45 percent

Component Descriptions

Haynie

MLRA: 75 - Central Loess Plains, 76 - Bluestem Hills
Landform: Flood plain on river valley
Parent material: Coarse-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 12.4 inches)
Shrink-swell potential: Low (About 2.6 LEP)
Flooding hazard: Frequent
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe30-36)
Land capability (irrigated):
Land capability (nonirrigated): 5w

Typical Profile:

A—0 to 10 inches; silt loam
 C—10 to 60 inches; very fine sandy loam

Minor Components

Unnamed Stratified Soils (fine-Silty)

Composition: About 33 percent
Slope: 0 to 2 percent
Drainage class: Moderately well drained

Unnamed Stratified Soils (fine)

Composition: About 9 percent
Slope: 0 to 2 percent
Drainage class: Moderately well drained

Unnamed Hydric Soil (ponding)

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

Unnamed Hydric Soil (saturation)

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

Unnamed Stratified Soils (sandy)

Composition: About 1 percent

Slope: 0 to 2 percent
Drainage class: Excessively drained

061KO—Konza silty clay loam, 1 to 3 percent slopes

Map Unit Composition

Konza: 85 percent
 Minor components: 15 percent

Component Descriptions

Konza

MLRA: 76 - Bluestem Hills
Landform: Ridge on upland
Hillslope position: Shoulder, summit
Parent material: Silty and clayey loess over silty and clayey pedisegment over clayey residuum weathered from limestone and 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 8.8 inches)
Shrink-swell potential: Very high (About 10.0 LEP)
Flooding hazard: None
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high
Ecological site: Clay Pan (pe30-36)
Land capability (irrigated):
Land capability (nonirrigated): 3e

Typical Profile:

A—0 to 6 inches; silty clay loam
 Bt1—6 to 28 inches; silty clay
 Bt2—28 to 42 inches; silty clay
 Bt3—42 to 50 inches; silty clay loam
 2Bt4—50 to 70 inches; silty clay loam
 3Bt5—70 to 89 inches; clay

Minor Components

Irwin

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe30-36)

Ladysmith

Composition: About 3 percent

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

Labette

Composition: About 3 percent
Slope: 0 to 4 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-36)

Clime

Composition: About 2 percent
Slope: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe30-36)

Florence

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 10 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-36)

061MK—McCook-Smokyhill silt loams, occasionally flooded

Map Unit Composition

McCook: 63 percent
 Smokyhill: 25 percent
 Minor components: 12 percent

Component Descriptions

McCook

MLRA: 75 - Central Loess Plains
Landform: Stream terrace on river valley
Parent material: Weakly stratified calcareous coarse-silty alluvium
Slope: 0 to 1 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.7 inches)
Shrink-swell potential: Low (About 2.1 LEP)
Flooding hazard: Occasional
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet

Runoff class: Low
Ecological site: Loamy Lowland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 2w

Typical Profile:

A—0 to 12 inches; silt loam
 AC—12 to 23 inches; silt loam
 C—23 to 60 inches; very fine sandy loam, silt loam

Smokyhill

MLRA: 75 - Central Loess Plains
Landform: Depression on flood plain on river valley
Parent material: Clayey alluvium over silty alluvium
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: High (About 6.8 LEP)
Flooding hazard: Occasional
Ponding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Negligible
Ecological site: Clay Lowland (pe30-36)
Land capability (irrigated):
Land capability (nonirrigated): 2w

Typical Profile:

Ap—0 to 6 inches; silt loam
 A—6 to 14 inches; silty clay loam
 AC—14 to 30 inches; silty clay loam
 2C—30 to 72 inches; silt loam

Minor Components

McCook Sandy Substratum

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe25-34)

Sutphen

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Lowland (pe30-36)

Unnamed Hydric Soil (ponding)

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

Unnamed Hydric Soil (saturation)

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

061TN—Tully silty clay loam, 1 to 4 percent slopes

Map Unit Composition

Tully: 85 percent
 Minor components: 15 percent

Component Descriptions

Tully

MLRA: 76 - Bluestem Hills
Landform: Hillslope on upland
Hillslope position: Footslope
Parent material: Clayey colluvium
Slope: 1 to 4 percent
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.1 inches)
Shrink-swell potential: High (About 8.0 LEP)
Flooding hazard: None
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: High
Ecological site: Loamy Upland (pe30-36)
Land capability (irrigated):
Land capability (nonirrigated): 2e

Typical Profile:

A—0 to 12 inches; silty clay loam
 BA—12 to 21 inches; silty clay loam
 Bt1—21 to 31 inches; silty clay
 Bt2—31 to 40 inches; silty clay
 Bt3—40 to 52 inches; silty clay
 BC—52 to 60 inches; silty clay

Minor Components

Kahola

Composition: About 6 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe30-36)

Reading

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

Florence

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 8 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-36)

Clime

Composition: About 2 percent
Slope: 1 to 4 percent
Depth to restrictive feature: 20 to 40 inches
 to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe30-36)

061TO—Tully silty clay loam, 3 to 8 percent slopes

Map Unit Composition

Tully: 85 percent
 Minor components: 15 percent

Component Descriptions

Tully

MLRA: 76 - Bluestem Hills
Landform: Hillslope on upland
Hillslope position: Footslope
Parent material: Clayey colluvium
Slope: 3 to 8 percent
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.1 inches)
Shrink-swell potential: High (About 8.0 LEP)
Flooding hazard: None
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high
Ecological site: Loamy Upland (pe30-36)
Land capability (irrigated):
Land capability (nonirrigated): 3e

Typical Profile:

A—0 to 12 inches; silty clay loam
 BA—12 to 21 inches; silty clay loam
 Bt1—21 to 31 inches; silty clay
 Bt2—31 to 40 inches; silty clay
 Bt3—40 to 52 inches; silty clay
 BC—52 to 60 inches; silty clay

Minor Components**Kahola**

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

Reading

Composition: About 3 percent

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

Benfield

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 15 percent
Depth to restrictive feature: 20 to 40 inches
 to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-36)

Florence

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 15 percent
Depth to restrictive feature: 40 to 60 inches
 to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-36)

Clime

Composition: About 2 percent
Slope: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches
 to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe30-36)

Calcareous, Fine-Loamy, Cumulic Hapludolls

Composition: About 1 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe30-36)

061WE—Wells-Ortello complex, 1 to 4 percent slopes

Map Unit Composition

Wells: 50 percent
 Ortello: 30 percent
 Minor components: 15 percent

Component Descriptions

Wells

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Fine-loamy residuum
Slope: 1 to 4 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 10.4 inches)

Shrink-swell potential: Moderate (About 4.9 LEP)

Flooding hazard: None

Ponding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Low

Ecological site: Loamy Upland (pe25-34)

Land capability (irrigated):

Land capability (nonirrigated): 3e

Typical Profile:

A—0 to 12 inches; loam

BA—12 to 19 inches; clay loam

Bt1—19 to 37 inches; clay loam

Bt2—37 to 51 inches; sandy clay loam

BC—51 to 63 inches; clay loam

Ortello

MLRA: 75 - Central Loess Plains

Landform: Hillslope on upland

Parent material: Loamy alluvium and/or loamy eolian deposits

Slope: 1 to 4 percent

Drainage class: Well drained

Slowest permeability: Moderately rapid (About 2.00 in/hr)

Available water capacity: High (About 9.0 inches)

Shrink-swell potential: Low (About 0.5 LEP)

Flooding hazard: None

Ponding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Very low

Ecological site: Sandy (pe25-34)

Land capability (irrigated):

Land capability (nonirrigated): 3e

Typical Profile:

Ap—0 to 6 inches; sandy loam

A—6 to 15 inches; sandy loam

Bw—15 to 34 inches; sandy loam

C—34 to 60 inches; sandy loam

Minor Components

Longford

Composition: About 12 percent

Geomorphic Position: hillslope on upland

Slope: 1 to 3 percent

Drainage class: Well drained

Ecological site: Loamy Upland (pe25-34)

Clime

Composition: About 1 percent

Slope: 3 to 8 percent

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

Drainage class: Well drained

Ecological site: Limy Upland (pe30-36)

Valentine

Composition: About 1 percent

Slope: 5 to 15 percent

Drainage class: Excessively drained

Ecological site: Sandy (pe25-34)

Crete

Composition: About 1 percent

Geomorphic Position: hillslope on upland

Slope: 1 to 4 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe25-34)

115CM—Clime silty clay loam, 1 to 3 percent slopes

Map Unit Composition

Clime: 90 percent

Minor components: 10 percent

Component Descriptions

Clime

MLRA: 75 - Central Loess Plains

Landform: Hillslope on upland

Parent material: Silty and clayey residuum weathered from shale, calcareous

Slope: 1 to 3 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 5.2 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 (pe25-34)

Land capability (irrigated):

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 10 inches; silty clay loam

H2—10 to 30 inches; silty clay loam

Cr—30 to 30 inches; unweathered bedrock

Minor Components

Irwin

Composition: About 10 percent

Slope: 1 to 3 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe25-34)

115CS—Clime-Sogn silty clay loams, 3 to 20 percent slopes

Map Unit Composition

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

Component Descriptions

Clime

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from calcareous shale
Slope: 8 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: Low (About 4.6 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 (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 7 inches; silty clay loam
H2—7 to 27 inches; silty clay
Cr—27 to 31 inches; unweathered bedrock

Sogn

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
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 (pe25-34)

Land capability (irrigated):

Land capability (nonirrigated): 6s

Typical Profile:

H1—0 to 8 inches; silty clay loam
R—8 to 12 inches; unweathered bedrock

Minor Components

Labette

Composition: About 10 percent
Slope: 2 to 8 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe25-34)

Tully

Composition: About 5 percent
Slope: 3 to 6 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe25-34)

115LM—Ladysmith silty clay loam, 0 to 2 percent slopes

Map Unit Composition

Ladysmith: 90 percent
Minor components: 10 percent

Component Descriptions

Ladysmith

MLRA: 75 - Central Loess Plains
Landform: Ridge on upland
Hillslope position: Shoulder, summit
Parent material: Clayey alluvium
Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Impermeable (About 0.00 in/hr)
Available water capacity: Moderate (About 8.7 inches)
Shrink-swell potential: Very high (About 9.0 LEP)
Flooding hazard: None
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high
Ecological site: Clay Upland (pe30-36)
Land capability (irrigated):

Land capability (nonirrigated): 2s

Typical Profile:

A—0 to 7 inches; silty clay loam
Bt1—7 to 15 inches; silty clay
Bt2—15 to 30 inches; clay
BCk—30 to 38 inches; clay
C—38 to 60 inches; silty clay

Minor Components

Konza

Composition: About 10 percent
Geomorphic Position: ridge on upland
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Ecological site: Clay Pan (pe30-36)

115LV—Lancaster-Hedville complex, 3 to 20 percent slopes

Map Unit Composition

Lancaster: 60 percent
Hedville: 25 percent
Minor components: 15 percent

Component Descriptions

Lancaster

MLRA: 74 - Central Kansas Sandstone Hills
Landform: Hillslope on upland
Parent material: Loamy residuum weathered from sandstone and shale
Slope: 3 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: 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: Medium
Ecological site: Loamy Upland (pe26-30)
Land capability (irrigated):
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 7 inches; loam
H2—7 to 25 inches; sandy clay loam
H3—25 to 35 inches; sandy clay loam
Cr—35 to 35 inches; weathered bedrock

Hedville

MLRA: 74 - Central Kansas Sandstone Hills
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Loamy residuum weathered from sandstone and shale
Slope: 3 to 20 percent
Surface fragments: About 0 to 0 percent subrounded stones
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 2.1 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 (pe26-30)
Land capability (irrigated):
Land capability (nonirrigated): 7s

Typical Profile:

A1—0 to 10 inches; gravelly loam
A2—10 to 17 inches; gravelly loam
R—17 to 17 inches; unweathered bedrock

Minor Components

Cass

Composition: About 10 percent
Slope: 0 to 1 percent
Drainage class: Well drained
Ecological site: Sandy Lowland (pe26-30)

Edalgo

Composition: About 5 percent
Slope: 3 to 12 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Clay Upland (pe26-30)

127TS—Tully silty clay loam, 3 to 7 percent slopes

Map Unit Composition

Tully: 90 percent
Minor components: 10 percent

Component Descriptions

Tully*MLRA:* 76 - Bluestem Hills*Landform:* Hillslope on upland*Hillslope position:* Footslope*Parent material:* Clayey colluvium*Slope:* 3 to 7 percent*Drainage class:* Well drained*Slowest permeability:* Slow (About 0.06 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:* More than 6 feet*Runoff class:* High*Ecological site:* Loamy Upland (pe30-36)*Land capability (irrigated):**Land capability (nonirrigated):* 3e*Typical Profile:*

H1—0 to 17 inches; silty clay loam

H2—17 to 44 inches; silty clay

H3—44 to 60 inches; silty clay

Minor Components**Smolan***Composition:* About 5 percent*Slope:* 1 to 3 percent*Drainage class:* Moderately well drained*Ecological site:* Loamy Upland (pe25-34)**Reading***Composition:* About 5 percent*Slope:* 1 to 3 percent*Drainage class:* Well drained*Ecological site:* Loamy Lowland (pe30-36)**169CR—Crete silt loam, 0 to 2 percent slopes****Map Unit Composition**

Crete: 100 percent

Minor components:

Component Descriptions**Crete***MLRA:* 75 - Central Loess Plains*Landform:* Upland*Parent material:* Silty and clayey loess*Slope:* 0 to 2 percent*Drainage class:* Moderately well drained*Slowest permeability:* Impermeable (About 0.00 in/hr)*Available water capacity:* High (About 11.4 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:* Clay Upland (pe26-30)*Land capability (irrigated):**Land capability (nonirrigated):* 2s*Typical Profile:*

H1—0 to 7 inches; silt loam

H2—7 to 14 inches; silty clay loam

H3—14 to 34 inches; silty clay

H4—34 to 60 inches; silty clay loam

Minor Components**Unnamed Hydric Soils****169CS—Crete silt loam, 2 to 5 percent slopes****Map Unit Composition**

Crete: 100 percent

Minor components:

Component Descriptions**Crete***MLRA:* 75 - Central Loess Plains*Landform:* Upland*Parent material:* Silty and clayey loess*Slope:* 2 to 5 percent*Drainage class:* Moderately well drained*Slowest permeability:* Impermeable (About 0.00 in/hr)*Available water capacity:* High (About 11.6 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 (pe26-30)*Land capability (irrigated):**Land capability (nonirrigated):* 3e*Typical Profile:*

H1—0 to 15 inches; silt loam

H2—15 to 19 inches; silty clay loam

H3—19 to 38 inches; silty clay

H4—38 to 60 inches; silty clay loam

169DE—Detroit silty clay loam, rarely flooded

Map Unit Composition

Detroit: 100 percent
Minor components:

Component Descriptions

Detroit

MLRA: 75 - Central Loess Plains
Landform: Flood plain on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 11.1 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very low
Ecological site: Loamy Terrace (pe26-30)
Land capability (irrigated):
Land capability (nonirrigated): 1

Typical Profile:

Ap—0 to 16 inches; silty clay loam
H2—16 to 37 inches; silty clay loam
H3—37 to 60 inches; silt loam

Minor Components

Unnamed Hydric Soils

169KC—Kipson-Clime complex, 6 to 20 percent slopes

Map Unit Composition

Kipson: 60 percent
Clime: 40 percent
Minor components:

Component Descriptions

Kipson

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland

Parent material: Calcareous loamy residuum weathered from shale
Slope: 6 to 20 percent
Depth to restrictive feature: 7 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 3.6 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 (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 7 inches; silt loam
H2—7 to 18 inches; silty clay loam
Cr—18 to 18 inches; weathered bedrock

Clime

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from shale, calcareous
Slope: 6 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: Low (About 4.5 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 (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 8 inches; silty clay loam
H2—8 to 20 inches; silty clay
H3—20 to 28 inches; silty clay
Cr—28 to 28 inches; weathered bedrock

169OT—Ortello fine sandy loam, 2 to 6 percent slopes

Map Unit Composition

Ortello: 100 percent
Minor components:

Component Descriptions

Ortello

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Parent material: Loamy alluvium and/or loamy eolian deposits
Slope: 2 to 6 percent
Drainage class: Well drained
Slowest permeability: Moderately rapid (About 2.00 in/hr)
Available water capacity: Moderate (About 7.0 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very low
Ecological site: Sandy (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 14 inches; fine sandy loam
H2—14 to 31 inches; fine sandy loam
H3—31 to 60 inches; loamy fine sand

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: Negligible

Ecological site: Loamy Lowland (pe26-30)

Land capability (irrigated):

Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 20 inches; silt loam
H2—20 to 32 inches; silt loam
H3—32 to 60 inches; silt loam

Minor Components

Unnamed Hydric Soils

Slope: 0 to 2 percent

Drainage class: Poorly drained

Unnamed Hydric Soil

Slope: 0 to 2 percent

Drainage class: Poorly drained

Unnamed Wet Soils

Phase: LOAMY, DEPRESSION

Unnamed Wet Soils

Phase: LOAMY, DRAINAGEWAY

AED—Arents, Earthen Dam

Map Unit Composition

Arents, Earthen Dam: 100 percent

169TO—Tobin silt loam, occasionally flooded

Map Unit Composition

Tobin: 100 percent
Minor components:

Component Descriptions

Tobin

MLRA: 75 - Central Loess Plains
Landform: Flood plain on upland
Parent material: Silty alluvium
Slope: 0 to 2 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)

Ca—Carwile loam, 0 to 1 percent slopes

Map Unit Composition

Carwile: 90 percent
Minor components: 10 percent

Component Descriptions

Carwile

MLRA: 75 - Central Loess Plains
Landform: Depression on upland
Parent material: Loamy eolian deposits over loamy alluvium

Slope: 0 to 1 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.6 inches)
Shrink-swell potential: High (About 6.6 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 0 to 0 inches
Runoff class: Negligible
Ecological site: Sandy (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 2w

Typical Profile:

A1—0 to 7 inches; loam
 A2—7 to 14 inches; clay loam
 Bt—14 to 31 inches; clay loam
 C—31 to 60 inches; clay loam

Minor Components

Valentine

Composition: About 5 percent
Slope: 8 to 15 percent
Drainage class: Excessively drained
Ecological site: Sands (pe25-34)

Ortello

Composition: About 5 percent
Slope: 1 to 6 percent
Drainage class: Well drained
Ecological site: Sandy (pe25-34)

Cb—Clime silty clay loam, 2 to 6 percent slopes

Map Unit Composition

Clime: 85 percent
 Minor components: 15 percent

Component Descriptions

Clime

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Hillslope position: Backslope, shoulder
Parent material: Silty and clayey residuum weathered from shale, calcareous
Slope: 2 to 6 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 4.5 inches)
Shrink-swell potential: High (About 8.4 LEP)

Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: High
Ecological site: Limy Upland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 4e

Typical Profile:

A—0 to 10 inches; silty clay loam
 Bw—10 to 19 inches; silty clay
 C—19 to 27 inches; silty clay
 Cr—27 to 27 inches; weathered bedrock

Minor Components

Irwin

Composition: About 10 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe25-34)

Crete

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe25-34)

Cc—Clime silty clay loam, 6 to 15 percent slopes

Map Unit Composition

Clime: 85 percent
 Minor components: 15 percent

Component Descriptions

Clime

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Hillslope position: Backslope, shoulder
Parent material: Silty and clayey residuum weathered from shale, calcareous
Slope: 6 to 15 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 4.5 inches)
Shrink-swell potential: High (About 8.4 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high

Ecological site: Limy Upland (pe25-34)

Land capability (irrigated):

Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 10 inches; silty clay loam

Bw—10 to 19 inches; silty clay

C—19 to 27 inches; silty clay

Cr—27 to 27 inches; weathered bedrock

Minor Components

Irwin

Composition: About 5 percent

Geomorphic Position: hillslope on upland

Slope: 3 to 7 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe25-34)

Sogn

Composition: About 5 percent

Geomorphic Position: upland

hillslope

Slope: 5 to 10 percent

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

Drainage class: Somewhat excessively drained

Ecological site: Shallow Limy (pe30-36)

Crete

Composition: About 5 percent

Geomorphic Position: hillslope on upland

Slope: 3 to 7 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe25-34)

Cd—Clime-Sogn complex, 5 to 20 percent slopes

Map Unit Composition

Clime: 70 percent

Sogn: 20 percent

Minor components: 10 percent

Component Descriptions

Clime

MLRA: 76 - Bluestem Hills

Landform: Hillslope on upland

Hillslope position: Backslope

Parent material: Silty and clayey residuum weathered from shale, calcareous

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: Low (About 4.5 inches)

Shrink-swell potential: High (About 8.4 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 (irrigated):

Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 10 inches; silty clay loam

Bw—10 to 19 inches; silty clay

C—19 to 27 inches; silty clay

Cr—27 to 27 inches; weathered bedrock

Sogn

MLRA: 76 - Bluestem Hills

Landform: Hillslope, upland

Hillslope position: Shoulder

Parent material: Loamy residuum weathered from limestone, unspecified

Slope: 5 to 10 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 3.1 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: Shallow Limy (pe30-36)

Land capability (irrigated):

Land capability (nonirrigated): 6s

Typical Profile:

A—0 to 14 inches; silt loam

R—14 to 14 inches; unweathered bedrock

Minor Components

Irwin

Composition: About 5 percent

Geomorphic Position: hillslope on upland

Slope: 3 to 7 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe25-34)

Crete

Composition: About 4 percent

Geomorphic Position: hillslope on upland

Slope: 1 to 3 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe25-34)

Unnamed Hydric Soil (saturation)*Composition:* About 1 percent*Slope:* 0 to 2 percent*Drainage class:* Poorly drained**Ce—Crete silty clay loam, 0 to 1 percent slopes****Map Unit Composition**

Crete: 95 percent

Minor components: 5 percent

Component Descriptions**Crete***MLRA:* 75 - Central Loess Plains*Landform:* Ridge on upland*Hillslope position:* Summit, shoulder*Parent material:* Loess*Slope:* 0 to 1 percent*Drainage class:* Moderately well drained*Slowest permeability:* Slow (About 0.06 in/hr)*Available water capacity:* High (About 10.1 inches)*Shrink-swell potential:* Very high (About 9.5 LEP)*Flooding hazard:* None*Depth to seasonal water saturation:* More than 6 feet*Runoff class:* Medium*Ecological site:* Clay Upland (pe25-34)*Land capability (irrigated):**Land capability (nonirrigated):* 2s*Typical Profile:*

Ap—0 to 8 inches; silty clay loam

BA—8 to 11 inches; silty clay loam

Bt—11 to 30 inches; silty clay

Btk—30 to 42 inches; silty clay loam

BC—42 to 60 inches; silty clay loam

Minor Components**Clime***Composition:* About 5 percent*Geomorphic Position:* hillslope on upland*Slope:* 2 to 6 percent*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)*Drainage class:* Well drained*Ecological site:* Limy Upland (pe25-34)**Cf—Crete silty clay loam, 1 to 3 percent slopes****Map Unit Composition**

Crete: 85 percent

Minor components: 15 percent

Component Descriptions**Crete***MLRA:* 75 - Central Loess Plains*Landform:* Hillslope on upland*Hillslope position:* Shoulder, backslope*Parent material:* Loess*Slope:* 1 to 3 percent*Drainage class:* Moderately well drained*Slowest permeability:* Slow (About 0.06 in/hr)*Available water capacity:* High (About 10.1 inches)*Shrink-swell potential:* Very high (About 9.5 LEP)*Flooding hazard:* None*Depth to seasonal water saturation:* More than 6 feet*Runoff class:* High*Ecological site:* Clay Upland (pe25-34)*Land capability (irrigated):**Land capability (nonirrigated):* 2e*Typical Profile:*

Ap—0 to 8 inches; silty clay loam

BA—8 to 11 inches; silty clay loam

Bt—11 to 30 inches; silty clay

BCK—30 to 40 inches; silty clay loam

C—40 to 60 inches; silty clay loam

Minor Components**Clime***Composition:* About 5 percent*Geomorphic Position:* hillslope on upland*Slope:* 2 to 6 percent*Depth to restrictive feature:* 20 to 40 inches to bedrock (paralithic)*Drainage class:* Well drained*Ecological site:* Limy Upland (pe25-34)**Hobbs***Composition:* About 5 percent*Slope:* 0 to 3 percent*Drainage class:* Well drained*Ecological site:* Loamy Lowland (pe25-34)**Wells***Composition:* About 5 percent*Slope:* 3 to 7 percent*Drainage class:* Well drained*Ecological site:* Loamy Upland (pe25-34)

Cg—Crete silty clay loam, 3 to 7 percent slopes

Map Unit Composition

Crete: 85 percent
Minor components: 15 percent

Component Descriptions

Crete

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Loess
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 10.1 inches)
Shrink-swell potential: Very high (About 9.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: High
Ecological site: Clay Upland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 3e

Typical Profile:

Ap—0 to 8 inches; silty clay loam
BA—8 to 11 inches; silty clay loam
Bt—11 to 30 inches; silty clay
BCk—30 to 40 inches; silty clay loam
C—40 to 60 inches; silty clay loam

Minor Components

Clime

Composition: About 10 percent
Geomorphic Position: hillslope on upland
Slope: 2 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe25-34)

Hobbs

Composition: About 5 percent
Slope: 0 to 3 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe25-34)

Da—Detroit silt loam, rarely flooded

Map Unit Composition

Detroit: 85 percent
Minor components: 15 percent

Component Descriptions

Detroit

MLRA: 75 - Central Loess Plains
Landform: Stream terrace on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 10.2 inches)
Shrink-swell potential: High (About 7.9 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Terrace (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 1

Typical Profile:

Ap—0 to 8 inches; silt loam
A1—8 to 13 inches; silty clay loam
Bt—13 to 38 inches; silty clay
BC—38 to 45 inches; silty clay loam
C—45 to 60 inches; silt loam

Minor Components

McCook

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe25-34)

Sutphen

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Lowland (pe30-36)

Muir

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Terrace (pe25-34)

Ea—Elsmere fine sandy loam, rarely flooded

Map Unit Composition

Elsmere: 85 percent
Minor components: 15 percent

Component Descriptions

Elsmere

MLRA: 75 - Central Loess Plains
Landform: Terrace on alluvial plain
Parent material: Sandy alluvium
Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Moderately rapid (About 2.00 in/hr)
Available water capacity: Low (About 4.9 inches)
Shrink-swell potential: Low (About 1.0 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: About 18 to 36 inches
Runoff class: Negligible
Ecological site: Subirrigated (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 2w

Typical Profile:

Ap—0 to 6 inches; fine sandy loam
A1—6 to 12 inches; fine sandy loam
AC—12 to 18 inches; loamy fine sand
C1—18 to 44 inches; fine sand
C2—44 to 60 inches; fine sand

Minor Components

Hobbs

Composition: About 15 percent
Slope: 0 to 3 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe25-34)

Fa—Fluvaquents, Clayey, Frequently flooded

Map Unit Composition

Fluvaquents: 90 percent
Minor components: 10 percent

Component Descriptions

Fluvaquents

MLRA: 75 - Central Loess Plains

Landform: Ephemeral oxbow lake on river valley
Parent material: Silty alluvium over clayey alluvium
Slope: 0 to 2 percent
Drainage class: Poorly drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: High (About 9.7 inches)
Shrink-swell potential: High (About 8.5 LEP)
Flooding hazard: Frequent
Ponding hazard: Frequent
Depth to seasonal water saturation: About 0 to 24 inches
Runoff class: Negligible
Land capability (irrigated):
Land capability (nonirrigated): 5w

Typical Profile:

A—0 to 20 inches; stratified silt loam
C—20 to 60 inches; stratified clay

Minor Components

Solomon

Composition: About 10 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe30-36)

Ga—Geary silt loam, 2 to 7 percent slopes

Map Unit Composition

Geary: 90 percent
Minor components: 10 percent

Component Descriptions

Geary

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Silty loess
Slope: 2 to 7 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Moderate (About 8.0 inches)
Shrink-swell potential: Moderate (About 5.6 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium
Ecological site: Loamy Upland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 3e

Typical Profile:

A1—0 to 8 inches; silt loam
 A2—8 to 13 inches; silt loam
 Bt—13 to 25 inches; silty clay loam
 BC—43 to 52 inches; silty clay loam
 C—52 to 60 inches; silty clay loam

Minor Components

Irwin

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe25-34)

Crete

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe25-34)

Ha—Hobbs silt loam, occasionally flooded

Map Unit Composition

Hobbs: 93 percent
 Minor components: 7 percent

Component Descriptions

Hobbs

MLRA: 75 - Central Loess Plains
Landform: Flood plain on alluvial plain
Parent material: Fine-silty alluvium
Slope: 0 to 3 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.9 inches)
Shrink-swell potential: Moderate (About 3.3 LEP)
Flooding hazard: Occasional
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe25-34)
Land capability (irrigated):

Land capability (nonirrigated): 2w

Typical Profile:

A—0 to 8 inches; silt loam
 C1—8 to 24 inches; silt loam
 C2—24 to 44 inches; silt loam
 C3—44 to 60 inches; silt loam

Minor Components

Sutphen

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

Unnamed Hydric Soil (ponding)

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

Unnamed Hydric Soil (saturation)

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

Hb—Hobbs silt loam, channeled

Map Unit Composition

Hobbs: 98 percent
 Minor components: 2 percent

Component Descriptions

Hobbs

MLRA: 75 - Central Loess Plains
Landform: Flood plain on meander belt
Parent material: Fine-silty alluvium
Slope: 0 to 2 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.9 inches)
Shrink-swell potential: Moderate (About 3.3 LEP)
Flooding hazard: Frequent
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 5w

Typical Profile:

A—0 to 8 inches; silt loam
 C1—8 to 24 inches; silt loam
 C2—24 to 44 inches; silt loam
 C3—44 to 60 inches; silt loam

Minor Components

Unnamed Hydric Soil (ponding)

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

Unnamed Hydric Soil (saturation)

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

1a—Irwin silty clay loam, 1 to 3 percent slopes

Map Unit Composition

Irwin: 90 percent
 Minor components: 10 percent

Component Descriptions

Irwin

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Hillslope position: Shoulder, backslope
Parent material: 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 8.4 inches)
Shrink-swell potential: High (About 8.9 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high
Ecological site: Clay Upland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 3e

Typical Profile:

A—0 to 9 inches; silty clay loam
 Bt—9 to 30 inches; silty clay
 BC—30 to 39 inches; silty clay
 C—39 to 60 inches; silty clay

Minor Components

Clime

Composition: About 5 percent

Geomorphic Position: hillslope on upland
Slope: 2 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe25-34)

Crete

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe25-34)

1b—Irwin silty clay loam, 3 to 7 percent slopes

Map Unit Composition

Irwin: 75 percent
 Minor components: 20 percent

Component Descriptions

Irwin

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Clayey residuum weathered from clayey shale
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.4 inches)
Shrink-swell potential: High (About 8.9 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high
Ecological site: Clay Upland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 4e

Typical Profile:

A—0 to 9 inches; silty clay loam
 Bt—9 to 30 inches; silty clay
 BC—30 to 39 inches; silty clay
 C—39 to 60 inches; silty clay

Minor Components

Clime

Composition: About 10 percent
Geomorphic Position: hillslope on upland
Slope: 2 to 6 percent

Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Limy Upland (pe25-34)

Crete

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe25-34)

Geary

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 2 to 7 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe25-34)

La—Lancaster-Hedville loams, 3 to 15 percent slopes

Map Unit Composition

Lancaster: 60 percent
 Hedville: 20 percent
 Minor components: 20 percent

Component Descriptions

Lancaster

MLRA: 75 - Central Loess Plains, 74 - Central Kansas Sandstone Hills
Landform: Hillslope on upland
Parent material: Fine-loamy residuum weathered from sandstone and shale
Slope: 3 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: Moderate (About 6.4 inches)
Shrink-swell potential: Moderate (About 4.1 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 11 inches; loam

Bt—11 to 24 inches; clay loam
 BC—24 to 36 inches; sandy clay loam
 Cr—36 to 36 inches; weathered bedrock

Hedville

MLRA: 75 - Central Loess Plains, 74 - Central Kansas Sandstone Hills
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Loamy residuum
Slope: 7 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: Low (About 3.3 inches)
Shrink-swell potential: Low (About 1.6 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Shallow Sandstone (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 13 inches; loam
 C—13 to 16 inches; fine sandy loam
 R—16 to 16 inches; unweathered bedrock

Minor Components

Wells

Composition: About 10 percent
Slope: 3 to 7 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe25-34)

Crete

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe25-34)

Irwin

Composition: About 4 percent
Geomorphic Position: hillslope on upland
Slope: 1 to 3 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe25-34)

Unnamed Hydric Soil (saturation)

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

M-W—Miscellaneous Water

Map Unit Composition

Miscellaneous Water: 100 percent

Ma—McCook silt loam, occasionally flooded

Map Unit Composition

McCook: 89 percent
Minor components: 11 percent

Component Descriptions

McCook

MLRA: 75 - Central Loess Plains
Landform: Stream terrace on river valley
Parent material: Weakly stratified calcareous coarse-silty alluvium
Slope: 0 to 2 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.8 inches)
Shrink-swell potential: Low (About 2.1 LEP)
Flooding hazard: Occasional
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 2w

Typical Profile:

A—0 to 10 inches; silt loam
AC—10 to 17 inches; silt loam
C1—17 to 26 inches; silt loam
C2—25 to 60 inches; very fine sandy loam

Minor Components

Sutphen

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

Muir

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Terrace (pe25-34)

Solomon

Composition: About 1 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe30-36)

Mb—Muir silt loam, rarely flooded

Map Unit Composition

Muir: 85 percent
Minor components: 15 percent

Component Descriptions

Muir

MLRA: 75 - Central Loess Plains
Landform: Flood plain on alluvial plain
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 12.3 inches)
Shrink-swell potential: Moderate (About 3.0 LEP)
Flooding hazard: Rare
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Terrace (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 1

Typical Profile:

Ap—0 to 4 inches; silt loam
A—4 to 16 inches; silt loam
Bw1—16 to 24 inches; silt loam
Bw2—24 to 44 inches; silt loam
C—44 to 60 inches; silt loam

Minor Components

Sutphen

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

Hobbs

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe25-34)

Detroit

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Ecological site: Loamy Terrace (pe25-34)

Oa—Ortello-Wells fine sandy loams, 1 to 6 percent slopes

Map Unit Composition

Ortello: 50 percent
 Wells: 35 percent
 Minor components: 15 percent

Component Descriptions

Ortello

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Parent material: Loamy alluvium and/or loamy eolian deposits
Slope: 1 to 6 percent
Drainage class: Well drained
Slowest permeability: Moderately rapid (About 2.00 in/hr)
Available water capacity: High (About 9.0 inches)
Shrink-swell potential: Low (About 0.5 LEP)
Flooding hazard: None
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very low
Ecological site: Sandy (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 3e

Typical Profile:

Ap—0 to 8 inches; fine sandy loam
 A—8 to 16 inches; fine sandy loam
 Bw—16 to 35 inches; fine sandy loam
 C1—35 to 46 inches; fine sandy loam
 C2—46 to 60 inches; loamy fine sand

Wells

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Fine-loamy residuum
Slope: 3 to 7 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: High (About 10.0 inches)
Shrink-swell potential: Moderate (About 4.9 LEP)
Flooding hazard: None
Ponding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 3e

Typical Profile:

Ap—0 to 8 inches; fine sandy loam
 BA—8 to 12 inches; loam
 Bt1—12 to 37 inches; clay loam
 Bt2—37 to 44 inches; sandy clay loam
 BC—44 to 60 inches; clay loam

Minor Components**Valentine**

Composition: About 5 percent
Slope: 1 to 8 percent
Drainage class: Excessively drained
Ecological site: Sands (pe25-34)

Elsmere

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Ecological site: Subirrigated (pe25-34)

Carwile

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Somewhat poorly drained
Ecological site: Sandy (pe25-34)

Qa—Quarries

Map Unit Composition

Quarries: 100 percent

Sb—Solomon silty clay, occasionally flooded

Map Unit Composition

Solomon: 85 percent
 Minor components: 15 percent

Component Descriptions

Solomon

MLRA: 75 - Central Loess Plains

Landform: Meander scar on 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 6.2 inches)

Shrink-swell potential: Very high (About 10.4 LEP)

Flooding hazard: Occasional

Ponding hazard: Frequent

Depth to seasonal water saturation: More than 6 feet

Runoff class: Negligible

Ecological site: Clay Lowland (pe30-36)

Land capability (irrigated):

Land capability (nonirrigated): 3w

Typical Profile:

Ap—0 to 10 inches; silty clay

Bg1—10 to 23 inches; silty clay

Bg2—23 to 45 inches; silty clay

Cg—45 to 60 inches; silty clay

Minor Components

Sutphen

Composition: About 10 percent

Slope: 0 to 1 percent

Drainage class: Somewhat poorly drained

Ecological site: Clay Lowland (pe30-36)

McCook

Composition: About 5 percent

Slope: 0 to 2 percent

Drainage class: Well drained

Ecological site: Loamy Lowland (pe25-34)

Sc—Sutphen silty clay loam, occasionally flooded

Map Unit Composition

Sutphen: 89 percent

Minor components: 12 percent

Component Descriptions

Sutphen

MLRA: 75 - Central Loess Plains

Landform: Flood plain on river valley

Parent material: Clayey alluvium

Slope: 0 to 1 percent

Drainage class: Moderately well drained

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

Available water capacity: Moderate (About 8.9 inches)

Shrink-swell potential: Very high (About 9.7 LEP)

Flooding hazard: Occasional

Ponding hazard: Occasional

Depth to seasonal water saturation: More than 6 feet

Runoff class: High

Ecological site: Clay Lowland (pe30-36)

Land capability (irrigated):

Land capability (nonirrigated): 2w

Typical Profile:

Ap—0 to 6 inches; silty clay loam

A1—6 to 12 inches; silty clay loam

A2—12 to 26 inches; silty clay

AC—26 to 34 inches; silty clay

C1—34 to 40 inches; silty clay loam

C2—40 to 60 inches; silty clay loam

Minor Components

Muir

Composition: About 5 percent

Slope: 0 to 2 percent

Drainage class: Well drained

Ecological site: Loamy Terrace (pe25-34)

Detroit

Composition: About 5 percent

Slope: 0 to 1 percent

Drainage class: Moderately well drained

Ecological site: Loamy Terrace (pe25-34)

Unnamed Hydric Soil (ponding)

Composition: About 1 percent

Slope: 0 to 2 percent

Drainage class: Poorly drained

Unnamed Hydric Soil (saturation)

Composition: About 1 percent

Slope: 0 to 2 percent

Drainage class: Poorly drained

Sd—Sutphen silty clay, occasionally flooded

Map Unit Composition

Sutphen: 88 percent

Minor components: 12 percent

Component Descriptions

Sutphen

MLRA: 75 - Central Loess Plains

Landform: Flood plain on river valley

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 7.9 inches)

Shrink-swell potential: Very high (About 9.7 LEP)

Flooding hazard: Occasional

Ponding hazard: Occasional

Depth to seasonal water saturation: More than 6 feet

Runoff class: High

Ecological site: Clay Lowland (pe30-36)

Land capability (irrigated):

Land capability (nonirrigated): 3w

Typical Profile:

Ap—0 to 7 inches; silty clay

A1—7 to 24 inches; silty clay

AC—24 to 32 inches; silty clay

C1—32 to 40 inches; silty clay

C2—40 to 60 inches; silty clay

Minor Components

Detroit

Composition: About 5 percent

Slope: 0 to 1 percent

Drainage class: Moderately well drained

Ecological site: Loamy Terrace (pe25-34)

Muir

Composition: About 5 percent

Slope: 0 to 2 percent

Drainage class: Well drained

Ecological site: Loamy Terrace (pe25-34)

Unnamed Hydric Soil (ponding)

Composition: About 1 percent

Slope: 0 to 2 percent

Drainage class: Poorly drained

Unnamed Hydric Soil (saturation)

Composition: About 1 percent

Slope: 0 to 2 percent

Drainage class: Poorly drained

Va—Valentine loamy fine sand, 5 to 15 percent slopes

Map Unit Composition

Valentine: 85 percent

Minor components: 15 percent

Component Descriptions

Valentine

MLRA: 75 - Central Loess Plains

Landform: Hillslope, upland

Parent material: Sandy eolian sands

Slope: 8 to 15 percent

Drainage class: Excessively drained

Slowest permeability: Rapid (About 5.95 in/hr)

Available water capacity: Low (About 4.2 inches)

Shrink-swell potential: Low (About 0.0 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Very low

Ecological site: Sands (pe25-34)

Land capability (irrigated):

Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 7 inches; loamy fine sand

AC—7 to 15 inches; loamy fine sand

C—15 to 60 inches; loamy fine sand

Minor Components

Wells

Composition: About 5 percent

Geomorphic Position: hillslope on upland

Slope: 3 to 7 percent

Drainage class: Well drained

Ecological site: Loamy Upland (pe25-34)

Carwile

Composition: About 5 percent

Slope: 0 to 1 percent

Drainage class: Somewhat poorly drained

Ecological site: Sandy (pe25-34)

Elsmere

Composition: About 5 percent

Slope: 0 to 2 percent

Drainage class: Somewhat poorly drained

Ecological site: Subirrigated (pe25-34)

Vb—Valentine loamy fine sand, 1 to 5 percent slopes

Map Unit Composition

Valentine: 85 percent
Minor components: 15 percent

Component Descriptions

Valentine

MLRA: 75 - Central Loess Plains
Landform: Hillslope, upland
Parent material: Sandy eolian sands
Slope: 1 to 8 percent
Drainage class: Excessively drained
Slowest permeability: Rapid (About 5.95 in/hr)
Available water capacity: Low (About 4.2 inches)
Shrink-swell potential: Low (About 0.0 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very low
Ecological site: Sands (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 4e

Typical Profile:

A—0 to 7 inches; loamy fine sand
AC—7 to 15 inches; loamy fine sand
C—15 to 60 inches; loamy fine sand

Minor Components

Wells

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe25-34)

Carwile

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Somewhat poorly drained
Ecological site: Sandy (pe25-34)

Elsmere

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Ecological site: Subirrigated (pe25-34)

W—Water

Wa—Wells loam, 3 to 7 percent slopes

Map Unit Composition

Wells: 89 percent
Minor components: 11 percent

Component Descriptions

Wells

MLRA: 75 - Central Loess Plains, 74 - Central Kansas Sandstone Hills
Landform: Upland, hillslope
Parent material: Fine-loamy residuum
Slope: 3 to 7 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 10.4 inches)
Shrink-swell potential: Moderate (About 4.9 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe25-34)
Land capability (irrigated):
Land capability (nonirrigated): 3e

Typical Profile:

A—0 to 12 inches; loam
BA—12 to 19 inches; loam
Bt1—19 to 37 inches; sandy clay loam
Bt2—37 to 44 inches; sandy clay loam
BC—44 to 63 inches; sandy clay loam

Minor Components

Lancaster

Composition: About 10 percent
Slope: 3 to 12 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe25-34)

Hedville

Composition: About 1 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 Sandstone (pe25-34)