

027GC—Geary silt loam, 2 to 7 percent slopes**Map Unit Composition**

Geary: 83 percent
 Minor components: 17 percent

Component Descriptions**Geary**

MLRA: 74 - Central Kansas Sandstone Hills
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 (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**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)

Holder

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

Wells

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

Hobbs

Composition: About 2 percent
Slope: 0 to 3 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe25-34)

027SU—Sutphen silty clay loam, occasionally flooded**Map Unit Composition**

Sutphen: 99 percent
 Minor components: 1 percent

Component Descriptions**Sutphen**

MLRA: 74 - Central Kansas Sandstone Hills
Landform: Terrace 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 8.1 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Occasional
Depth to seasonal water saturation: More than 6 feet
Runoff class: High
Ecological site: Clay Lowland (pe25-34)
Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 7 inches; silty clay loam
 H2—7 to 46 inches; silty clay
 H3—46 to 60 inches; silty clay loam

Minor Components**Unnamed Hydric Soil**

Composition: About 1 percent
Drainage class: Poorly drained

117KA—Kennebec silt loam, occasionally flooded**Map Unit Composition**

Kennebec: 95 percent
 Minor components: 5 percent

Component Descriptions

Kennebec

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

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

117PB—Pawnee clay loam, 4 to 8 percent slopes

Map Unit Composition

Pawnee: 88 percent

Minor components: 12 percent

Component Descriptions

Pawnee

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Clayey drift

Slope: 4 to 8 percent

Drainage class: Moderately well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: Moderate (About 8.1 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 12 to 36 inches

Runoff class: Very high

Ecological site: Loamy Upland (pe30-37)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 13 inches; clay loam

H2—13 to 36 inches; clay

H3—36 to 60 inches; clay loam

Minor Components

Wymore

Composition: About 3 percent

Geomorphic Position: hillslope on upland

Slope: 1 to 4 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe30-37)

Shelby

Composition: About 3 percent

Slope: 10 to 14 percent

Drainage class: Moderately well drained

Morrill

Composition: About 3 percent

Slope: 4 to 8 percent

Drainage class: Well drained

Ecological site: Loamy Upland (pe30-37)

Kipson

Composition: About 3 percent

Slope: 5 to 25 percent

Depth to restrictive feature: 7 to 20 inches to bedrock (paralithic)

Drainage class: Somewhat excessively drained

Ecological site: Limy Upland (pe30-36)

117PC—Pawnee clay, 3 to 8 percent slopes, eroded

Map Unit Composition

Pawnee: 88 percent

Minor components: 12 percent

Component Descriptions

Pawnee

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Clayey drift
Slope: 3 to 8 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Moderate (About 7.6 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 12 to 36 inches
Runoff class: Very high
Ecological site: Clay Upland (pe30-37)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 6 inches; clay
 H2—6 to 26 inches; clay
 H3—26 to 60 inches; clay loam

Minor Components

Wymore

Composition: About 3 percent
Geomorphic Position: hillslope on upland
Slope: 1 to 4 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe30-37)

Shelby

Composition: About 3 percent
Slope: 10 to 14 percent
Drainage class: Moderately well drained

Morrill

Composition: About 3 percent
Slope: 4 to 8 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe30-37)

Kipson

Composition: About 3 percent
Slope: 5 to 25 percent
Depth to restrictive feature: 7 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Ecological site: Limy Upland (pe30-36)

117WA—Wabash silty clay loam, occasionally flooded

Map Unit Composition

Wabash: 88 percent
 Minor components: 12 percent

Component Descriptions

Wabash

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills
Landform: Terrace 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 8.0 inches)
Shrink-swell potential: Very high (About 17.0 LEP)
Flooding hazard: Occasional
Depth to seasonal water saturation: About 2 to 9 inches
Runoff class: Very high
Ecological site: Clay Lowland (pe30-37)
Land capability (nonirrigated): 3w

Typical Profile:

H1—0 to 16 inches; silty clay loam
 H2—16 to 70 inches; silty clay

Minor Components

Kennebec

Composition: About 3 percent
Slope: 0 to 2 percent
Drainage class: Moderately well drained
Ecological site: Loamy Lowland (pe30-37)

Reading

Composition: About 3 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe35-42)

Wabash

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

Leanna

Composition: About 3 percent
Geomorphic Position: flood plain on valley
Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Lowland (pe35-42)

117WB—Wymore silty clay loam, 1 to 4 percent slopes

Map Unit Composition

Wymore: 88 percent

Minor components: 12 percent

Component Descriptions

Wymore

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Hillslope position: Shoulder, summit

Parent material: Silty and clayey loess

Slope: 1 to 4 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 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 12 to 36 inches

Runoff class: High

Ecological site: Clay Upland (pe30-37)

Land capability (nonirrigated): 2e

Typical Profile:

H1—0 to 6 inches; silty clay loam

H2—6 to 26 inches; silty clay

H3—26 to 60 inches; silty clay loam

Minor Components

Tully

Composition: About 3 percent

Geomorphic Position: hillslope on upland

Slope: 3 to 7 percent

Drainage class: Well drained

Ecological site: Loamy Upland (pe30-36)

Pawnee

Composition: About 3 percent

Slope: 1 to 4 percent

Drainage class: Moderately well drained

Ecological site: Loamy Upland (pe30-37)

Ladysmith

Composition: About 3 percent

Geomorphic Position: hillslope on upland

Slope: 0 to 1 percent

Drainage class: Somewhat poorly drained

Ecological site: Clay Upland (pe30-37)

Geary

Composition: About 3 percent

Slope: 3 to 7 percent

Drainage class: Well drained

Ecological site: Loamy Upland (pe25-34)

117WC—Wymore silty clay loam, 3 to 6 percent slopes, eroded

Map Unit Composition

Wymore: 85 percent

Minor components: 15 percent

Component Descriptions

Wymore

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Hillslope position: Backslope

Parent material: Silty and clayey loess

Slope: 3 to 6 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 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 12 to 36 inches

Runoff class: High

Ecological site: Clay Upland (pe30-37)

Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 6 inches; silty clay loam

H2—6 to 26 inches; silty clay

H3—26 to 60 inches; silty clay loam

Minor Components

Pawnee

Composition: About 5 percent

Slope: 1 to 4 percent

Drainage class: Moderately well drained

Ecological site: Loamy Upland (pe30-37)

Kipson

Composition: About 5 percent

Slope: 5 to 25 percent

Depth to restrictive feature: 7 to 20 inches to bedrock (paralithic)

Drainage class: Somewhat excessively drained

Ecological site: Limy Upland (pe30-36)

Geary

Composition: About 5 percent

Slope: 3 to 7 percent

Drainage class: Well drained

Ecological site: Loamy Upland (pe25-34)

AED—Arents, Earthen Dam Map Unit Composition

Be—Benfield silty clay loam, 3 to 7 percent slopes

Map Unit Composition

Benfield: 85 percent
Minor components: 15 percent

Component Descriptions

Benfield

MLRA: 76 - Bluestem Hills
Landform: Hillslope on upland
Parent material: Silty loess over clayey residuum weathered from calcareous 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 4.2 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): 4e

Typical Profile:

A—0 to 5 inches; silty clay loam
Bt—5 to 24 inches; silty clay
2Cr—24 to 24 inches; weathered bedrock

Minor Components

Crete

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)

Kipson

Composition: About 3 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 30 percent
Depth to restrictive feature: 7 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Ecological site: Limy Upland (pe26-30)

Rock outcrop

Composition: About 1 percent

Slickspots

Composition: About 1 percent

Cg—Cass fine sandy loam, occasionally flooded

Map Unit Composition

Cass: 89 percent
Minor components: 11 percent

Component Descriptions

Cass

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills
Landform: Flood plain on river valley
Parent material: Loamy alluvium over sandy alluvium
Slope: 0 to 2 percent
Drainage class: Well drained
Slowest permeability: Moderately rapid (About 2.00 in/hr)
Available water capacity: Moderate (About 7.3 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Occasional
Depth to seasonal water saturation: More than 6 feet
Runoff class: Negligible
Ecological site: Sandy Lowland (pe26-30)
Land capability (nonirrigated): 2w

Typical Profile:

A—0 to 7 inches; fine sandy loam
AC—7 to 28 inches; fine sandy loam
C—28 to 60 inches; fine sand

Minor Components

Eudora

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

Muir

Composition: About 3 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Terrace (pe25-34)

Sarpy

Composition: About 2 percent
Slope: 0 to 3 percent
Drainage class: Excessively drained

Ecological site: Sandy Lowland (pe25-34)

Haynie

Composition: About 1 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe25-34)

Ch—Cass fine sandy loam, frequently flooded

Map Unit Composition

Cass: 89 percent
 Minor components: 11 percent

Component Descriptions

Cass

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills
Landform: Flood plain on river valley
Parent material: Coarse-loamy alluvium
Slope: 0 to 2 percent
Depth to restrictive feature: inches to strongly contrasting textural stratification
Drainage class: Well drained
Slowest permeability: Moderately rapid (About 2.00 in/hr)
Available water capacity: Moderate (About 7.9 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: More than 6 feet
Runoff class: Negligible
Ecological site: Sandy Lowland (pe25-34)
Land capability (nonirrigated): 5w

Typical Profile:

H1—0 to 17 inches; fine sandy loam
 H2—17 to 48 inches; fine sandy loam
 H3—48 to 60 inches; fine sand

Minor Components

Eudora

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

Sarpy

Composition: About 5 percent
Slope: 0 to 4 percent
Drainage class: Excessively drained
Ecological site: Sands (pe26-30)

Unnamed Hydric Soil

Composition: About 1 percent
Drainage class: Somewhat poorly drained

Co—Colo silt loam, rarely flooded

Map Unit Composition

Colo: 95 percent
 Minor components: 5 percent

Component Descriptions

Colo

MLRA: 74 - Central Kansas Sandstone Hills
Landform: Depression on terrace on river valley
Parent material: Fine-silty alluvium
Slope: 0 to 2 percent
Drainage class: Poorly 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: Rare
Depth to seasonal water saturation: About 12 to 36 inches
Runoff class: Negligible
Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 19 inches; silt loam
 H2—19 to 36 inches; silty clay loam
 H3—36 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 (pe26-30)

Cr—Crete silt loam, 0 to 1 percent slopes

Map Unit Composition

Crete: 99 percent
 Minor components: 1 percent

Component Descriptions

Crete

MLRA: 74 - Central Kansas Sandstone Hills, 75 - Central Loess Plains

Landform: Hillslope on upland

Parent material: Silty and clayey loess

Slope: 0 to 1 percent

Drainage class: Moderately well drained

Slowest permeability: Impermeable (About 0.00 in/hr)

Available water capacity: High (About 11.1 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Clay Upland (pe26-30)

Land capability (nonirrigated): 2s

Typical Profile:

Ap—0 to 5 inches; silt loam

BA—5 to 12 inches; silty clay loam

Bt—12 to 36 inches; silty clay

BC—36 to 60 inches; silty clay loam

Minor Components

Unnamed Hydric Soil (ponding)

Composition: About 1 percent

Slope: 0 to 2 percent

Drainage class: Poorly drained

Cs—Crete silty clay loam, 1 to 3 percent slopes

Map Unit Composition

Crete: 95 percent

Minor components: 5 percent

Component Descriptions

Crete

MLRA: 74 - Central Kansas Sandstone Hills, 75 - Central Loess Plains

Landform: Hillslope on upland

Parent material: Silty and clayey loess

Slope: 1 to 3 percent

Drainage class: Moderately well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: High (About 10.0 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 (pe26-30)

Land capability (nonirrigated): 2e

Typical Profile:

Ap—0 to 6 inches; silty clay loam

BA—6 to 9 inches; silty clay loam

Bt—9 to 32 inches; silty clay

Btk—32 to 40 inches; silty clay loam

BC—40 to 60 inches; silty clay loam

Minor Components

Hobbs

Composition: About 5 percent

Slope: 0 to 2 percent

Drainage class: Well drained

Ecological site: Loamy Lowland (pe26-30)

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

Map Unit Composition

Crete: 88 percent

Minor components: 12 percent

Component Descriptions

Crete

MLRA: 74 - Central Kansas Sandstone Hills, 75 - Central Loess Plains

Landform: Hillslope on upland

Hillslope position: Backslope

Parent material: Silty and clayey 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 (nonirrigated): 3e

Typical Profile:

Ap—0 to 7 inches; silty clay loam

BA—7 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**Longford**

Composition: About 5 percent
Slope: 3 to 7 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Benfield

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 (pe25-34)

Hobbs

Composition: About 2 percent
Slope: 0 to 3 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe25-34)

Lancaster

Composition: About 2 percent
Slope: 5 to 12 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Cx—Crete silty clay loam, 3 to 7 percent slopes, eroded**Map Unit Composition**

Crete: 90 percent
 Minor components: 10 percent

Component Descriptions**Crete**

MLRA: 74 - Central Kansas Sandstone Hills, 75 - Central Loess Plains
Landform: Hillslope on upland
Parent material: Silty and clayey loess
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Slowest permeability: Impermeable (About 0.00 in/hr)
Available water capacity: High (About 10.9 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: Clay Upland (pe26-30)

Land capability (nonirrigated): 4e

Typical Profile:

Ap—0 to 5 inches; silty clay loam
 Bt—5 to 30 inches; silty clay
 BC—30 to 60 inches; silt loam

Minor Components**Hobbs**

Composition: About 5 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe26-30)

Longford

Composition: About 5 percent
Slope: 3 to 7 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Ed—Edalgo silty clay loam, 3 to 7 percent slopes**Map Unit Composition**

Edalgo: 85 percent
 Minor components: 15 percent

Component Descriptions**Edalgo**

MLRA: 74 - Central Kansas Sandstone Hills
Landform: Hillslope on upland
Parent material: Clayey residuum weathered from shale and siltstone
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 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: Very high
Ecological site: Clay Upland (pe26-30)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 10 inches; silty clay loam
 H2—10 to 20 inches; silty clay
 H3—20 to 30 inches; silty clay
 Cr—30 to 34 inches; weathered bedrock

Minor Components**Lancaster**

Composition: About 4 percent
Slope: 5 to 12 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Hedville

Composition: About 4 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 30 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Ecological site: Shallow Sandstone (pe26-30)

Crete

Composition: About 4 percent
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe26-30)

Wells

Composition: About 3 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Eu—Eudora loam, occasionally flooded**Map Unit Composition**

Eudora: 94 percent
 Minor components: 6 percent

Component Descriptions**Eudora**

MLRA: 75 - Central Loess Plains
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 12.0 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Occasional
Depth to seasonal water saturation: More than 6 feet

Runoff class: Negligible

Ecological site: Loamy Lowland (pe25-34)

Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 10 inches; loam

H2—10 to 60 inches; very fine sandy loam

Minor Components**Cass**

Composition: About 5 percent
Slope: 0 to 2 percent
Depth to restrictive feature: inches to strongly contrasting textural stratification
Drainage class: Well drained
Ecological site: Sandy Lowland (pe25-34)

Unnamed Hydric Soil

Composition: About 1 percent
Drainage class: Poorly drained

Ho—Hobbs silt loam, occasionally flooded**Map Unit Composition**

Hobbs: 83 percent
 Minor components: 17 percent

Component Descriptions**Hobbs**

MLRA: 74 - Central Kansas Sandstone Hills, 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 11.7 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 (nonirrigated): 2w

Typical Profile:

A—0 to 6 inches; silt loam
 C1—6 to 35 inches; silt loam
 C2—35 to 44 inches; silt loam

C3—44 to 60 inches; silt loam

Minor Components

Unnamed Stratified Soils (fine)

Composition: About 10 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe26-30)

Longford

Composition: About 2 percent
Slope: 3 to 7 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Muir

Composition: About 2 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Terrace (pe26-30)

Crete

Composition: About 1 percent
Geomorphic Position: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (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

Kp—Kipson silty clay loam, 5 to 30 percent slopes

Map Unit Composition

Kipson: 90 percent
 Minor components: 10 percent

Component Descriptions

Kipson

MLRA: 75 - Central Loess Plains
Landform: Hillslope on upland
Parent material: Calcareous loamy residuum weathered from shale
Slope: 5 to 30 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 3.4 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: Limy Upland (pe25-34)

Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 12 inches; silty clay loam

H2—12 to 18 inches; silty clay loam

Cr—18 to 22 inches; weathered bedrock

Minor Components

Rock outcrop

Composition: About 2 percent
Slope: 15 to 45 percent

Crete

Composition: About 2 percent
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe26-30)

Sogn

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 15 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Ecological site: Shallow Limy (pe26-30)

Tully

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 12 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Armo

Composition: About 2 percent
Geomorphic Position: hillslope on upland
Slope: 2 to 7 percent
Drainage class: Well drained
Ecological site: Limy Upland (pe26-30)

Ks—Kipson-Sogn complex, 5 to 30 percent slopes

Map Unit Composition

Kipson: 70 percent
Sogn: 15 percent
Minor components: 15 percent

Component Descriptions

Kipson

MLRA: 76 - Bluestem Hills
Landform: Hillslope on upland
Hillslope position: Backslope
Parent material: Loamy residuum weathered from limestone and shale
Slope: 5 to 30 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 3.4 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: Limy Upland (pe26-30)
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 12 inches; silty clay loam
H2—12 to 18 inches; silty clay loam
Cr—18 to 22 inches; weathered bedrock

Sogn

MLRA: 76 - Bluestem Hills
Landform: Hillslope on upland
Hillslope position: Shoulder
Parent material: Loamy residuum weathered from limestone
Slope: 5 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 3.1 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: Shallow Limy (pe26-30)
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 8 inches; silt loam
H2—8 to 16 inches; channery silt loam
H3—16 to 20 inches; unweathered bedrock

Minor Components

Crete

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe26-30)

Tully

Composition: About 5 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 12 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Rock outcrop

Composition: About 3 percent
Slope: 15 to 45 percent

Unnamed Hydric Soil

Composition: About 1 percent
Drainage class: Poorly drained

Unnamed Hydric Soils

Composition: About 1 percent
Drainage class: Poorly drained

Lc—Lancaster loam, 3 to 7 percent slopes

Map Unit Composition

Lancaster: 85 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 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 5.2 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 (pe26-30)

Land capability (nonirrigated): 4e

Typical Profile:

A—0 to 9 inches; loam
 Bt—9 to 24 inches; clay loam
 BC—24 to 29 inches; sandy clay loam
 Cr—29 to 29 inches; weathered bedrock

Minor Components

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)

Wells

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

Longford

Composition: About 3 percent
Slope: 3 to 7 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Hedville

Composition: About 1 percent
Geomorphic Position: hillslope on upland
Slope: 5 to 30 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Ecological site: Shallow Sandstone (pe26-30)

Edalgo

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: Clay Upland (pe26-30)

Lh—Lancaster-Hedville loams, 5 to 30 percent slopes

Map Unit Composition

Lancaster: 50 percent

Hedville: 32 percent

Minor components: 18 percent

Component Descriptions

Lancaster

MLRA: 74 - Central Kansas Sandstone Hills

Landform: Hillslope on upland

Parent material: 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: Low (About 5.2 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 (pe26-30)

Land capability (nonirrigated): 6e

Typical Profile:

A—0 to 9 inches; loam
 Bt—9 to 26 inches; clay loam
 BC—26 to 29 inches; sandy clay loam
 Cr—29 to 29 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: 5 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: Low (About 3.0 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 (pe26-30)

Land capability (nonirrigated): 6e

Typical Profile:

A1—0 to 10 inches; loam
A2—10 to 15 inches; fine sandy loam
R—15 to 15 inches; unweathered bedrock

Minor Components

Crete

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe26-30)

Edalgo

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: Clay Upland (pe26-30)

Wells

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

Rock outcrop

Composition: About 1 percent
Slope: 15 to 45 percent

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

Lo—Longford silt loam, 3 to 7 percent slopes

Map Unit Composition

Longford: 85 percent
Minor components: 15 percent

Component Descriptions

Longford

MLRA: 74 - Central Kansas Sandstone Hills, 75 - Central Loess Plains
Landform: Hillslope on upland

Parent material: Silty and clayey loess over loamy pedisegment

Slope: 3 to 7 percent

Drainage class: Well drained

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

Available water capacity: High (About 11.1 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Upland (pe26-30)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 11 inches; silt loam
H2—11 to 18 inches; silty clay loam
H3—18 to 39 inches; silty clay loam
H4—39 to 60 inches; clay loam

Minor Components

Crete

Composition: About 5 percent
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe26-30)

Wells

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

Hobbs

Composition: About 3 percent
Slope: 0 to 2 percent
Drainage class: Well drained
Ecological site: Loamy Lowland (pe26-30)

Lancaster

Composition: About 2 percent
Slope: 5 to 12 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe26-30)

Lx—Longford silty clay loam, 3 to 7 percent slopes, eroded

Map Unit Composition

Longford: 90 percent
Minor components: 10 percent

Component Descriptions

Longford

MLRA: 74 - Central Kansas Sandstone Hills, 75 - Central Loess Plains

Landform: Hillslope on upland

Hillslope position: Backslope

Parent material: Silty and clayey loess over loamy pedisegment

Slope: 3 to 7 percent

Drainage class: Well drained

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

Available water capacity: High (About 10.1 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Upland (pe26-30)

Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 6 inches; silty clay loam

H2—6 to 31 inches; silty clay loam

H3—31 to 60 inches; clay loam

Minor Components

Crete

Composition: About 5 percent

Slope: 0 to 1 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe26-30)

Lancaster

Composition: About 3 percent

Slope: 5 to 12 percent

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

Drainage class: Well drained

Ecological site: Loamy Upland (pe26-30)

Wells

Composition: About 2 percent

Slope: 3 to 7 percent

Drainage class: Well drained

Ecological site: Loamy Upland (pe25-34)

Mc—Mayberry clay loam, 3 to 7 percent slopes

Map Unit Composition

Mayberry: 85 percent

Minor components: 15 percent

Component Descriptions

Mayberry

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Clayey till

Slope: 3 to 7 percent

Drainage class: Moderately well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: Moderate (About 8.1 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 6 to 18 inches

Runoff class: High

Ecological site: Clay Upland (pe25-34)

Land capability (nonirrigated): 3e

Typical Profile:

A—0 to 14 inches; clay loam

Bt—14 to 45 inches; clay

C—45 to 60 inches; stratified sandy loam to clay

Minor Components

Morrill

Composition: About 8 percent

Slope: 7 to 15 percent

Drainage class: Well drained

Ecological site: Loamy Upland (pe25-34)

Crete

Composition: About 6 percent

Slope: 0 to 1 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe26-30)

Unnamed Hydric Soil

Composition: About 1 percent

Drainage class: Poorly drained

Mh—Morrill loam, 3 to 7 percent slopes

Map Unit Composition

Morrill: 90 percent

Minor components: 10 percent

Component Descriptions

Morrill

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Fine-loamy till

Slope: 3 to 7 percent

Drainage class: Well drained

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

Available water capacity: High (About 10.1 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: Loamy Upland (pe25-34)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 8 inches; loam

H2—8 to 43 inches; clay loam

H3—43 to 60 inches; sandy clay loam

Minor Components

Mayberry

Composition: About 10 percent

Slope: 3 to 7 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe25-34)

Depth to seasonal water saturation: More than 6 feet

Runoff class: High

Ecological site: Loamy Upland (pe25-34)

Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 8 inches; loam

H2—8 to 43 inches; clay loam

H3—43 to 60 inches; sandy clay loam

Minor Components

Mayberry

Composition: About 8 percent

Slope: 3 to 7 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe25-34)

Jansen

Composition: About 7 percent

Slope: 7 to 20 percent

Depth to restrictive feature: 20 to 40 inches to strongly contrasting textural stratification

Drainage class: Well drained

Ecological site: Loamy Upland (pe25-34)

Mp—Morrill-Jansen loams, 7 to 20 percent slopes

Mm—Morrill loam, 7 to 12 percent slopes

Map Unit Composition

Morrill: 85 percent

Minor components: 15 percent

Component Descriptions

Morrill

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Fine-loamy till

Slope: 7 to 12 percent

Drainage class: Well drained

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

Available water capacity: High (About 10.1 inches)

Shrink-swell potential: Moderate (About 4.5 LEP)

Flooding hazard: None

Map Unit Composition

Morrill: 50 percent

Jansen: 45 percent

Minor components: 5 percent

Component Descriptions

Morrill

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Fine-loamy till

Slope: 7 to 15 percent

Drainage class: Well drained

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

Available water capacity: High (About 10.2 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 (pe25-34)

Land capability (nonirrigated): 6e

Typical Profile:

- H1—0 to 15 inches; loam
- H2—15 to 40 inches; clay loam
- H3—40 to 60 inches; sandy clay loam

Jansen

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Loamy alluvium over sands and gravel

Slope: 7 to 20 percent

Depth to restrictive feature: 20 to 40 inches to strongly contrasting textural stratification

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: High

Ecological site: Loamy Upland (pe25-34)

Land capability (nonirrigated): 6e

Typical Profile:

- H1—0 to 8 inches; loam
- H2—8 to 30 inches; sandy clay loam
- H3—30 to 34 inches; loamy coarse sand
- H4—34 to 60 inches; gravelly coarse sand

Minor Components

Mayberry

Composition: About 5 percent

Slope: 3 to 7 percent

Drainage class: Moderately well drained

Ecological site: Clay Upland (pe25-34)

Mu—Muir silt loam, rarely flooded

Map Unit Composition

Muir: 97 percent

Minor components: 3 percent

Component Descriptions

Muir

MLRA: 74 - Central Kansas Sandstone Hills, 75 - Central Loess Plains

Landform: Terrace on river valley

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: Very high (About 12.4 inches)

Shrink-swell potential: Low (About 1.5 LEP)

Flooding hazard: Rare

Depth to seasonal water saturation: More than 6 feet

Runoff class: Negligible

Ecological site: Loamy Terrace (pe26-30)

Land capability (nonirrigated): 1

Typical Profile:

- H1—0 to 18 inches; silt loam
- H2—18 to 33 inches; silt loam
- H3—33 to 60 inches; silt loam

Minor Components

Colo

Composition: About 2 percent

Slope: 0 to 2 percent

Drainage class: Poorly drained

Unnamed Hydric Soil

Composition: About 1 percent

Drainage class: Poorly drained

Sa—Sarpy loamy fine sand, 0 to 5 percent slopes, rarely flooded

Map Unit Composition

Sarpy: 90 percent

Minor components: 10 percent

Component Descriptions

Sarpy

MLRA: 74 - Central Kansas Sandstone Hills

Landform: Dune on terrace on river valley

Parent material: Sandy alluvium

Slope: 0 to 4 percent

Drainage class: Excessively drained

Slowest permeability: Rapid (About 5.95 in/hr)

Available water capacity: Low (About 4.1 inches)

Shrink-swell potential: Low (About 1.5 LEP)

Flooding hazard: Rare

Depth to seasonal water saturation: More than 6 feet

Runoff class: Negligible

Ecological site: Sands (pe26-30)

Land capability (nonirrigated): 4s

Typical Profile:

H1—0 to 8 inches; loamy fine sand
H2—8 to 60 inches; loamy fine sand

Drainage class: Moderately well drained
Ecological site: Clay Upland (pe26-30)

Minor Components**Cass**

Composition: About 5 percent
Slope: 0 to 2 percent
Depth to restrictive feature: inches to
strongly contrasting textural stratification
Drainage class: Well drained
Ecological site: Sandy Lowland (pe25-34)

Eudora

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

Tu—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: Silty and clayey colluvium
Slope: 3 to 7 percent
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Moderate (About 8.6 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: Loamy Upland (pe30-36)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 15 inches; silty clay loam
H2—15 to 47 inches; silty clay
H3—47 to 60 inches; silty clay loam

Minor Components**Crete**

Composition: About 10 percent
Slope: 3 to 7 percent

Ty—Tully silty clay loam, 5 to 12 percent slopes**Map Unit Composition**

Tully: 85 percent
Minor components: 15 percent

Component Descriptions**Tully**

MLRA: 74 - Central Kansas Sandstone Hills
Landform: Hillslope on upland
Hillslope position: Footslope
Parent material: Silty and clayey colluvium
Slope: 5 to 12 percent
Drainage class: 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: More than 6 feet
Runoff class: Very high
Ecological site: Loamy Upland (pe26-30)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 15 inches; silty clay loam
H2—15 to 47 inches; silty clay
H3—47 to 60 inches; silty clay loam

Minor Components**Crete**

Composition: About 15 percent
Slope: 3 to 7 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe26-30)

W—Water

We—Wells loam, 3 to 7 percent slopes

Drainage class: Somewhat excessively drained
Ecological site: Shallow Sandstone (pe25-34)

Map Unit Composition

Wells: 83 percent
 Minor components: 17 percent

Unnamed Hydric Soil (saturation)

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

Component Descriptions**Wells**

MLRA: 74 - Central Kansas Sandstone Hills
Landform: Hillslope, upland
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 10.3 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 (nonirrigated): 3e

Typical Profile:

A—0 to 12 inches; loam
 BA—12 to 18 inches; loam
 Bt1—18 to 28 inches; sandy clay loam
 Bt2—28 to 42 inches; sandy clay loam
 BC—42 to 60 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)

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)

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)