

**CA—Chase silt loam,
occasionally flooded****Map Unit Composition**

Chase: 90 percent
 Minor components: 10 percent

Component Descriptions**Chase**

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Flood plain on river valley

Parent material: Silty and clayey alluvium

Slope: 0 to 2 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 7.5 LEP)

Flooding hazard: Occasional

Depth to seasonal water saturation: About 24 to 48 inches

Runoff class: High

Ecological site: Loamy Lowland (pe35-42)

Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 10 inches; silt loam

H2—10 to 42 inches; silty clay

H3—42 to 60 inches; silty clay loam

Minor Components**Wabash**

Composition: About 10 percent

Slope: 0 to 1 percent

Drainage class: Poorly drained

Ecological site: Clay Lowland (pe30-37)

**EA—Eudora silt loam, rarely
flooded****Map Unit Composition**

Eudora: 90 percent
 Minor components: 10 percent

Component Descriptions**Eudora**

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Flood plain on river valley

Parent material: Coarse-silty alluvium

Slope: 0 to 1 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: Rare

Depth to seasonal water saturation: More than 6 feet

Runoff class: Low

Ecological site: Loamy Lowland (pe30-37)

Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 12 inches; silt loam

H2—12 to 72 inches; silt loam

Minor Components**Kimo**

Composition: About 5 percent

Slope: 0 to 1 percent

Drainage class: Somewhat poorly drained

Ecological site: Clay Lowland (pe30-37)

Sarpy

Composition: About 5 percent

Slope: 0 to 2 percent

Drainage class: Somewhat excessively drained

Ecological site: Sandy Lowland (pe30-37)

Unnamed Hydric Soil

Drainage class: Poorly drained

**EB—Eudora Soils, Overwash,
rarely flooded****Map Unit Composition**

Eudora: 85 percent
 Minor components: 15 percent

Component Descriptions**Eudora**

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Flood-plain step 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 12.1 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe30-37)
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 13 inches; silt loam
 H2—13 to 60 inches; very fine sandy loam

Minor Components**Kimo**

Composition: About 15 percent
Slope: 0 to 1 percent
Drainage class: Poorly drained
Ecological site: Clay Lowland (pe30-37)

EC—Eudora-Kimo complex, rarely flooded**Map Unit Composition**

Eudora: 60 percent
 Kimo: 30 percent
 Minor components: 10 percent

Component Descriptions**Eudora**

MLRA: 106 - Nebraska and Kansas Loess-Drift 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 12.0 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe30-37)
Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 12 inches; silt loam
 H2—12 to 72 inches; silt loam

Kimo

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Flood plain on river valley
Parent material: Clayey 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 11.3 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: About 22 to 26 inches
Runoff class: Medium
Ecological site: Clay Lowland (pe30-37)
Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 6 inches; silty clay loam
 H2—6 to 28 inches; silty clay
 H3—28 to 60 inches; silt loam

Minor Components**Sarpy**

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

Wabash

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

ED—Eudora-Kimo complex, Overwash, rarely flooded**Map Unit Composition**

Eudora: 75 percent
 Kimo: 25 percent

Component Descriptions**Eudora**

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Flood-plain step 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 12.1 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe30-37)
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 13 inches; silt loam
 H2—13 to 60 inches; very fine sandy loam

Kimo

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Flood-plain step on river valley
Parent material: Clayey alluvium over loamy alluvium
Slope: 0 to 1 percent
Drainage class: Poorly drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 11.3 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: About 24 to 72 inches
Runoff class: High
Ecological site: Clay Lowland (pe30-37)
Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 6 inches; silty clay loam
 H2—6 to 24 inches; silty clay loam
 H3—24 to 60 inches; silt loam

GA—Grundy silt loam, 1 to 3 percent slopes**Map Unit Composition**

Grundy: 100 percent

Component Descriptions**Grundy**

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland

Parent material: Silty and clayey loess
Slope: 1 to 3 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 10.6 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 6 to 12 inches
Runoff class: High
Ecological site: Clay Upland (pe30-37)
Land capability (nonirrigated): 2e

Typical Profile:

H1—0 to 9 inches; silt loam
 H2—9 to 15 inches; silty clay loam
 H3—15 to 29 inches; silty clay
 H4—29 to 60 inches; silty clay loam

KA—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

KB—Kennebec silt loam, channeled**Map Unit Composition**

Kennebec: 90 percent
 Minor components: 10 percent

Component Descriptions**Kennebec**

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Flood plain on river valley
Parent material: Fine-silty alluvium
Slope: 1 to 5 percent
Drainage class: Moderately well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Very high (About 13.4 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: About 36 to 60 inches
Runoff class: Low
Ecological site: Loamy Lowland (pe35-42)
Land capability (nonirrigated): 5w

Typical Profile:

H1—0 to 48 inches; silt loam
 H2—48 to 60 inches; silt loam

Minor Components**Martin**

Composition: About 10 percent
Slope: 2 to 5 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

KC—Kimo silty clay loam, rarely flooded**Map Unit Composition**

Kimo: 90 percent
 Minor components: 10 percent

Component Descriptions**Kimo**

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Flood plain on river valley
Parent material: Clayey 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 11.3 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: About 22 to 26 inches
Runoff class: Medium
Ecological site: Clay Lowland (pe30-37)
Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 6 inches; silty clay loam
 H2—6 to 28 inches; silty clay
 H3—28 to 60 inches; silt loam

Minor Components**Wabash**

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

Eudora

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

LA—Ladoga silt loam, 3 to 8 percent slopes**Map Unit Composition**

Ladoga: 90 percent
 Minor components: 10 percent

Component Descriptions

Ladoga

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Silty and clayey loess

Slope: 3 to 8 percent

Drainage class: Moderately well drained

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

Available water capacity: High (About 11.7 inches)

Shrink-swell potential: Moderate (About 4.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Upland (pe30-37)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 13 inches; silt loam

H2—13 to 31 inches; silty clay loam

H3—31 to 60 inches; silty clay loam

Minor Components

Martin

Composition: About 10 percent

Slope: 2 to 5 percent

Drainage class: Moderately well drained

Ecological site: Loamy Upland (pe35-42)

LB—Ladoga silt loam, 8 to 15 percent slopes

Map Unit Composition

Ladoga: 85 percent

Component Descriptions

Ladoga

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Silty and clayey loess

Slope: 8 to 15 percent

Drainage class: Moderately well drained

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

Available water capacity: High (About 11.7 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 (pe30-37)

Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 13 inches; silt loam

H2—13 to 31 inches; silty clay loam

H3—31 to 60 inches; silty clay loam

MA—Martin silty clay loam, 2 to 5 percent slopes

Map Unit Composition

Martin: 90 percent

Minor components: 10 percent

Component Descriptions

Martin

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Parent material: Silty and clayey colluvium

derived from limestone and shale over silty and

clayey residuum weathered from limestone and shale

Slope: 2 to 5 percent

Drainage class: Moderately well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: High (About 9.9 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Upland (pe35-42)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 15 inches; silty clay loam

H2—15 to 60 inches; silty clay

Minor Components**Vinland**

Composition: About 5 percent
Landform: hillslope on upland
Slope: 3 to 7 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Ecological site: Loamy Upland (pe35-42)

Oska

Composition: About 5 percent
Slope: 4 to 8 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

MB—Martin-Vinland silty clay loams, 7 to 15 percent slopes**Map Unit Composition**

Martin: 45 percent
 Vinland: 40 percent
 Minor components: 15 percent

Component Descriptions**Martin**

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey colluvium derived from limestone and shale over silty and clayey residuum weathered from limestone and shale
Slope: 7 to 11 percent
Drainage class: Moderately well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 9.9 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 6e

Typical Profile:

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

Vinland

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from shale
Slope: 8 to 15 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 4.2 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: High
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

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

Minor Components**Sogn**

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

Rock outcrop

Composition: About 5 percent

MC—Morrill loam, 3 to 8 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 glaciofluvial deposits

Slope: 3 to 8 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: Medium
Ecological site: Loamy Upland (pe30-37)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 13 inches; loam
 H2—13 to 22 inches; clay loam
 H3—22 to 60 inches; clay loam

Minor Components**Grundy**

Composition: About 8 percent
Slope: 1 to 3 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Upland (pe30-37)

Ladoga

Composition: About 7 percent
Slope: 3 to 8 percent
Drainage class: Moderately well drained

OA—Orthents, Shallow**OB—Oska silty clay loam, 3 to 6 percent slopes****Map Unit Composition**

Oska: 88 percent
 Minor components: 12 percent

Component Descriptions**Oska**

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from limestone and shale
Slope: 3 to 6 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)

Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: Moderate (About 6.3 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: High
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:

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

Minor Components**Gymer**

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

Martin

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

Vinland

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

Sogn

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

OC—Oska-Martin complex, 4 to 8 percent slopes**Map Unit Composition**

Oska: 50 percent
 Martin: 30 percent

Minor components: 20 percent

Component Descriptions

Oska

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

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

Slope: 4 to 8 percent

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

Drainage class: Well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: Low (About 5.6 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 (pe35-42)

Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 16 inches; silty clay loam

H2—16 to 32 inches; silty clay

R—32 to 36 inches; unweathered bedrock

Martin

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Silty and clayey colluvium derived from limestone and shale over silty and

clayey residuum weathered from limestone and shale

Slope: 4 to 8 percent

Drainage class: Moderately well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: High (About 9.9 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 21 to 26 inches

Runoff class: Very high

Ecological site: Loamy Upland (pe35-42)

Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 15 inches; silty clay loam

H2—15 to 60 inches; silty clay

Minor Components

Sogn

Composition: About 5 percent

Slope: 15 to 20 percent

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

Drainage class: Somewhat excessively drained

Ecological site: Shallow Limy (pe30-37)

Sharpsburg

Composition: About 5 percent

Slope: 3 to 8 percent

Drainage class: Moderately well drained

Ecological site: Loamy Upland (pe30-37)

Sibleyville

Composition: About 5 percent

Landform: hillslope on upland

Slope: 3 to 7 percent

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

Drainage class: Well drained

Ecological site: Loamy Upland (pe35-42)

Vinland

Composition: About 5 percent

Landform: hillslope on upland

Slope: 3 to 7 percent

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

Drainage class: Somewhat excessively drained

Ecological site: Loamy Upland (pe35-42)

PA—Pawnee clay loam, 3 to 6 percent slopes

Map Unit Composition

Pawnee: 85 percent

Minor components: 15 percent

Component Descriptions

Pawnee

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Clayey drift

Slope: 3 to 6 percent

Drainage class: Moderately well drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: Moderate (About 7.4 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): 3e

Typical Profile:

H1—0 to 12 inches; clay loam
 H2—12 to 49 inches; clay
 H3—49 to 60 inches; clay loam

Minor Components

Grundy

Composition: About 8 percent
Slope: 1 to 3 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Upland (pe30-37)

Woodson

Composition: About 7 percent
Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Upland (pe35-42)

PC—Polo silt loam, 2 to 5 percent slopes

Map Unit Composition

Polo: 100 percent

Component Descriptions

Polo

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Silty and clayey loess and/or silty and clayey residuum
Slope: 2 to 5 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 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: Medium
Ecological site: Loamy Upland (pe30-37)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 13 inches; silt loam
 H2—13 to 21 inches; silty clay loam

H3—21 to 60 inches; silty clay loam

QA—Pits, Quarries

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

RA—Reading silt loam, 0 to 2 percent slopes, rarely flooded

Map Unit Composition

Reading: 90 percent
 Minor components: 10 percent

Component Descriptions

Reading

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills
Landform: Terrace on river valley
Parent material: Fine-silty alluvium
Slope: 0 to 2 percent
Drainage class: Well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 11.5 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Lowland (pe35-42)
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 15 inches; silt loam
 H2—15 to 41 inches; silty clay loam
 H3—41 to 60 inches; silty clay

Minor Components

Wabash

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

Chase

Composition: About 5 percent

Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Ecological site: Loamy Lowland (pe35-42)

SA—Sharpsburg silt loam, 3 to 8 percent slopes

Map Unit Composition

Sharpsburg: 85 percent
 Minor components: 15 percent

Component Descriptions

Sharpsburg

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland
Parent material: Silty and clayey loess
Slope: 3 to 8 percent
Drainage class: Moderately well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 11.5 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe30-37)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 9 inches; silt loam
 H2—9 to 35 inches; silty clay loam
 H3—35 to 60 inches; silty clay loam

Minor Components

Martin

Composition: About 8 percent
Slope: 2 to 5 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Oska

Composition: About 7 percent
Slope: 4 to 8 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Well drained
Ecological site: Loamy Upland (pe35-42)

SB—Sharpsburg-Urban land complex, 3 to 8 percent slopes

Map Unit Composition

Sharpsburg: 55 percent
 Urban land: 45 percent

Component Descriptions

Sharpsburg

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland
Parent material: Silty and clayey loess
Slope: 3 to 8 percent
Drainage class: Moderately well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 11.5 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe30-37)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 9 inches; silt loam
 H2—9 to 35 inches; silty clay loam
 H3—35 to 60 inches; silty clay loam

Urban land

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills
Landform: Hillslope on upland
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high

SC—Sibleyville loam, 3 to 7 percent slopes

Map Unit Composition

Sibleyville: 100 percent

Component Descriptions

Sibleyville

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from sandstone-shale
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 5.1 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: Loamy Upland (pe35-42)
Land capability (nonirrigated): 3e

Typical Profile:
 H1—0 to 8 inches; loam
 H2—8 to 22 inches; clay loam
 H3—22 to 29 inches; channery clay loam
 H4—29 to 29 inches; weathered bedrock

SD—Sibleyville-Vinland loams, 3 to 7 percent slopes

Map Unit Composition

Sibleyville: 45 percent
 Vinland: 35 percent
 Minor components: 20 percent

Component Descriptions

Sibleyville
MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from sandstone and shale
Slope: 3 to 7 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 5.1 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: Loamy Upland (pe35-42)
Land capability (nonirrigated): 4e

Typical Profile:
 H1—0 to 8 inches; loam
 H2—8 to 22 inches; loam
 H3—22 to 29 inches; channery loam
 Cr—29 to 33 inches; weathered bedrock

Vinland

MLRA: 112 - Cherokee Prairies
Landform: Hillslope on upland
Parent material: Sandy and silty residuum weathered from shale
Slope: 3 to 7 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Somewhat excessively drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 4.2 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 6e

Typical Profile:
 H1—0 to 18 inches; loam
 Cr—18 to 22 inches; weathered bedrock

Minor Components

Martin
Composition: About 10 percent
Slope: 2 to 5 percent
Drainage class: Moderately well drained
Ecological site: Loamy Upland (pe35-42)

Sogn
Composition: About 10 percent
Slope: 7 to 15 percent
Depth to restrictive feature: 4 to 20 inches to bedrock (lithic)
Drainage class: Somewhat excessively drained
Ecological site: Shallow Limy (pe30-37)

SE—Sogn-Vinland complex, 5 to 20 percent slopes

Map Unit Composition

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

Component Descriptions**Sogn**

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Parent material: Loamy residuum weathered from limestone

Slope: 5 to 20 percent

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

Drainage class: Somewhat excessively drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: Very low (About 2.6 inches)

Shrink-swell potential: Moderate (About 4.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Shallow Limy (pe30-37)

Land capability (nonirrigated): 7s

Typical Profile:

H1—0 to 13 inches; silty clay loam

R—13 to 17 inches;

Vinland

MLRA: 112 - Cherokee Prairies

Landform: Hillslope on upland

Parent material: Sandy and silty residuum weathered from shale

Slope: 5 to 20 percent

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

Drainage class: Somewhat excessively drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: Low (About 3.5 inches)

Shrink-swell potential: Moderate (About 4.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Upland (pe30-37)

Land capability (nonirrigated): 6s

Typical Profile:

H1—0 to 12 inches; silty clay loam

H2—12 to 16 inches; silty clay loam

Cr—16 to 20 inches; weathered bedrock

Minor Components**Martin**

Composition: About 5 percent

Slope: 3 to 8 percent

Drainage class: Moderately well drained

Ecological site: Loamy Upland (pe30-37)

Oska

Composition: About 5 percent

Slope: 2 to 6 percent

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

Drainage class: Well drained

Ecological site: Loamy Upland (pe30-37)

Sibleyville

Composition: About 5 percent

Slope: 7 to 12 percent

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

Drainage class: Well drained

Ecological site: Loamy Upland (pe30-37)

VA—Vinland-Rock outcrop complex, 20 to 40 percent slopes**Map Unit Composition**

Rock outcrop: 60 percent

Vinland: 26 percent

Minor components: 14 percent

Component Descriptions**Rock outcrop**

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Slope: 20 to 40 percent

Depth to restrictive feature: 0 inches to bedrock (lithic)

Drainage class: Excessively drained

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Very high

Land capability (nonirrigated): 8

Vinland

MLRA: 106 - Nebraska and Kansas Loess-Drift Hills

Landform: Hillslope on upland

Parent material: Sandy and silty residuum weathered from shale

Slope: 20 to 30 percent

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

Drainage class: Somewhat excessively drained

Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Low (About 3.5 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: High
Ecological site: Loamy Upland (pe35-42)
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 7 inches; silty clay loam
 H2—7 to 17 inches; silty clay loam
 Cr—17 to 21 inches; weathered bedrock

Minor Components**Sogn**

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

Martin

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

Oska

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

WA—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
Landform: flood plain on valley
Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Ecological site: Clay Lowland (pe35-42)

WB—Woodson silt loam, 0 to 2 percent slopes**Map Unit Composition**

Woodson: 100 percent

Component Descriptions**Woodson**

MLRA: 112 - Cherokee Prairies

Landform: Divide on upland

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

Slope: 0 to 3 percent

Drainage class: Somewhat poorly drained

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

Available water capacity: Moderate (About 8.9 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 6 to 24 inches

Runoff class: High

Ecological site: Clay Upland (pe35-42)

Land capability (nonirrigated): 2s

Typical Profile:

H1—0 to 10 inches; silt loam

H2—10 to 30 inches; silty clay

H3—30 to 60 inches; silty clay