

015LS—Ladysmith silty clay loam, 0 to 2 percent slopes

Map Unit Composition

Ladysmith: 90 percent
Minor components: 10 percent

Ladysmith

Component Descriptions

MLRA: 75 - Central Loess Plains
Landform: Paleoterrace on upland
Parent material: Clayey alluvium
Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.8 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 (pe25-34)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 8 inches; silty clay loam
H2—8 to 38 inches; silty clay
H3—38 to 66 inches; silty clay

Minor Components

Irwin

Composition: About 5 percent
Landform: hillside on upland
Slope: 0 to 1 percent
Drainage class: Moderately well drained
Ecological site: Clay Upland (pe25-34)

Dwight

Composition: About 5 percent
Slope: 1 to 2 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (lithic)
Drainage class: Moderately well drained
Ecological site: Clay Pan (pe30-36)

035LG—Lincoln-Tivoli complex, 0 to 10 percent slopes

Map Unit Composition

Lincoln: 55 percent

Tivoli: 30 percent
Minor components: 15 percent

Component Descriptions

Lincoln

MLRA: 80A - Central Rolling Red Prairies
Landform: Flood plain on river valley
Parent material: Sandy alluvium
Slope: 0 to 2 percent
Drainage class: Excessively drained
Slowest permeability: Rapid (About 5.95 in/hr)
Available water capacity: Low (About 3.7 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Occasional
Depth to seasonal water saturation: About 60 to 72 inches
Runoff class: Negligible
Ecological site: Sandy Lowland (pe24-32)
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 9 inches; fine sandy loam
H2—9 to 60 inches; stratified fine sand to clay loam

Tivoli

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Eolian sands
Slope: 5 to 10 percent
Drainage class: Excessively drained
Slowest permeability: Rapid (About 5.95 in/hr)
Available water capacity: Low (About 3.2 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: Sands (pe24-32)
Land capability (nonirrigated): 7e

Typical Profile:

H1—0 to 7 inches; loamy fine sand
H2—7 to 60 inches; fine sand

Minor Components

Canadian

Composition: About 8 percent
Slope: 0 to 1 percent
Drainage class: Well drained
Ecological site: Sandy Terrace (pe24-32)

Attica

Composition: About 7 percent
Landform: divide on upland
Slope: 3 to 6 percent
Drainage class: Well drained
Ecological site: Sandy (pe24-32)

035VC—Vanoss silt loam, 3 to 7 percent slopes**Map Unit Composition**

Vanoss: 90 percent
 Minor components: 10 percent

Component Descriptions**Vanoss**

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Silty alluvium
Slope: 3 to 7 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 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: Low
Ecological site: Loamy Upland (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 12 inches; silt loam
 H2—12 to 38 inches; silty clay loam
 H3—38 to 60 inches; silt loam

Minor Components**Minco**

Composition: About 10 percent
Landform: hillslope on upland
Slope: 3 to 7 percent
Drainage class: Well drained
Ecological site: Loamy Upland (pe24-32)

035VD—Verdigris silt loam, occasionally flooded**Map Unit Composition**

Verdigris: 85 percent
 Minor components: 15 percent

Component Descriptions**Verdigris**

MLRA: 80A - Central Rolling Red Prairies
Landform: Flood plain on river valley
Parent material: Silty alluvium
Slope: 0 to 2 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Very high (About 12.6 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 (pe30-36)
Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 38 inches; silt loam
 H2—38 to 60 inches; silty clay loam

Minor Components**Brewer**

Composition: About 15 percent
Slope: 0 to 1 percent
Drainage class: Well drained
Ecological site: Loamy Terrace (pe24-32)

077AN—Kaski loam, frequently flooded**Map Unit Composition**

Kaski: 100 percent

Component Descriptions**Kaski**

MLRA: 79 - Great Bend Sand Plains
Landform: Flood plain on river valley
Parent material: Alluvium
Slope: 0 to 2 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 10.5 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Frequent

Depth to seasonal water saturation: More than 6 feet

Runoff class: Very low

Ecological site: Loamy Lowland (pe24-32)

Land capability (nonirrigated): 5w

Typical Profile:

H1—0 to 26 inches; loam

H2—26 to 40 inches; clay loam

H3—40 to 60 inches; sandy loam

Minor Components

Unnamed Wet Soils

Phase: Sandy, Drainageway

077BM—Lincoln loamy fine sand, occasionally flooded

Map Unit Composition

Lincoln: 100 percent

Component Descriptions

Lincoln

MLRA: 80A - Central Rolling Red Prairies

Landform: Flood plain on river valley

Parent material: Alluvium

Slope: 0 to 1 percent

Drainage class: Somewhat excessively drained

Slowest permeability: Rapid (About 5.95 in/hr)

Available water capacity: Low (About 3.8 inches)

Shrink-swell potential: Low (About 1.5 LEP)

Flooding hazard: Occasional

Depth to seasonal water saturation: About 60 to 72 inches

Runoff class: Negligible

Ecological site: Sands (pe24-32)

Land capability (nonirrigated): 4s

Typical Profile:

H1—0 to 21 inches; loamy fine sand

H2—21 to 60 inches; stratified fine sand to clay loam

Minor Components

Unnamed Wet Soils

Phase: Sandy, Drainageway

077BP—Woodward-Port complex, 0 to 20 percent slopes

Map Unit Composition

Woodward: 65 percent

Port: 35 percent

Component Descriptions

Woodward

MLRA: 80A - Central Rolling Red Prairies

Landform: Hillslope on upland

Parent material: Residuum

Slope: 1 to 20 percent

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

Drainage class: Somewhat excessively drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: Low (About 4.1 inches)

Shrink-swell potential: Low (About 1.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: High

Ecological site: Loamy Upland (pe24-32)

Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 24 inches; silt loam

Cr—24 to 24 inches; weathered bedrock

Port

MLRA: 80A - Central Rolling Red Prairies

Landform: Terrace on river valley

Parent material: Alluvium

Slope: 0 to 3 percent

Drainage class: Well drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: High (About 11.8 inches)

Shrink-swell potential: Moderate (About 4.5 LEP)

Flooding hazard: Frequent

Depth to seasonal water saturation: More than 6 feet

Runoff class: Low

Ecological site: Loamy Lowland (pe24-32)

Land capability (nonirrigated): 5w

Typical Profile:

H1—0 to 27 inches; silt loam

H2—27 to 60 inches; silty clay loam

Minor Components

Unnamed Wet Soils

Phase: Sandy, Depression

Unnamed Wet Soils*Phase: Sandy, Drainageway***077CE—Corbin silt loam, 0 to 1 percent slopes****Map Unit Composition**

Corbin: 100 percent

Component Descriptions**Corbin***MLRA: 80A - Central Rolling Red Prairies**Landform: Hillslope on upland**Parent material: Alluvium**Slope: 0 to 1 percent**Drainage class: Well drained**Slowest permeability: Slow (About 0.06 in/hr)**Available water capacity: High (About 10.0 inches)**Shrink-swell potential: High (About 7.5 LEP)**Flooding hazard: None**Depth to seasonal water saturation: More than 6 feet**Runoff class: Very low**Ecological site: Loamy Upland (pe24-32)**Land capability (nonirrigated): 1**Typical Profile:*

H1—0 to 16 inches; silt loam

H2—16 to 30 inches; silty clay loam

H3—30 to 55 inches; clay

H4—55 to 60 inches; silty clay loam

077CF—Corbin silt loam, 1 to 3 percent slopes**Map Unit Composition**

Corbin: 100 percent

Component Descriptions**Corbin***MLRA: 80A - Central Rolling Red Prairies**Landform: Hillslope on upland**Parent material: Alluvium**Slope: 1 to 3 percent**Drainage class: Well drained**Slowest permeability: Slow (About 0.06 in/hr)**Available water capacity: High (About 10.0 inches)**Shrink-swell potential: High (About 7.5 LEP)**Flooding hazard: None**Depth to seasonal water saturation: More than 6 feet**Runoff class: Low**Ecological site: Loamy Upland (pe24-32)**Land capability (nonirrigated): 2e**Typical Profile:*

H1—0 to 16 inches; silt loam

H2—16 to 30 inches; silty clay loam

H3—30 to 55 inches; clay

H4—55 to 60 inches; silty clay loam

077GN—Grant silt loam, 0 to 1 percent slopes**Map Unit Composition**

Grant: 100 percent

Component Descriptions**Grant***MLRA: 80A - Central Rolling Red Prairies**Landform: Terrace on upland**Parent material: Residuum**Slope: 0 to 1 percent**Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)**Drainage class: Well drained**Slowest permeability: Moderate (About 0.57 in/hr)**Available water capacity: High (About 9.2 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: Loamy Upland (pe24-32)**Land capability (nonirrigated): 1**Typical Profile:*

H1—0 to 11 inches; silt loam

H2—11 to 33 inches; silty clay loam

H3—33 to 50 inches; silt loam

Cr—50 to 50 inches; weathered bedrock

077GS—Grant silt loam, 3 to 6 percent slopes**Map Unit Composition**

Grant: 100 percent

Component Descriptions**Grant**

MLRA: 80A - Central Rolling Red Prairies

Landform: Terrace on upland

Parent material: Residuum

Slope: 3 to 6 percent

Depth to restrictive feature: 40 to 60 inches to bedrock (paralithic)

Drainage class: Well drained

Slowest permeability: Moderate (About 0.57 in/hr)

Available water capacity: High (About 9.2 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 (pe24-32)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 11 inches; silt loam

H2—11 to 33 inches; silty clay loam

H3—33 to 50 inches; silt loam

Cr—50 to 60 inches; weathered bedrock

Slope: 1 to 3 percent

Drainage class: Well drained

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

Available water capacity: Moderate (About 8.4 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Low

Ecological site: Clay Upland (pe24-32)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 12 inches; clay loam

H2—12 to 34 inches; silty clay

H3—34 to 60 inches; clay

Renfrow

MLRA: 80A - Central Rolling Red Prairies

Landform: Hillslope on upland

Parent material: Residuum

Slope: 1 to 3 percent

Drainage class: Well 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: More than 6 feet

Runoff class: Low

Ecological site: Clay Upland (pe24-32)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 9 inches; clay loam

H2—9 to 13 inches; clay loam

H3—13 to 60 inches; clay

077KR—Kirkland-Renfrow clay loams, 1 to 3 percent slopes**Map Unit Composition**

Kirkland: 70 percent

Renfrow: 30 percent

Component Descriptions**Kirkland**

MLRA: 80A - Central Rolling Red Prairies

Landform: Hillslope on upland

Parent material: Residuum

077KW—Kirkland-Renfrow Soils, 1 to 3 percent slopes, eroded**Map Unit Composition**

Kirkland: 70 percent

Renfrow: 30 percent

Component Descriptions**Kirkland**

MLRA: 80A - Central Rolling Red Prairies

Landform: Hillslope on upland
Parent material: Residuum
Slope: 1 to 3 percent
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.0 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Clay Upland (pe24-32)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 6 inches; clay loam
 H2—6 to 34 inches; silty clay
 H3—34 to 60 inches; clay

Renfrow

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 1 to 3 percent
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.6 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Clay Upland (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

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

077PH—Dale silt loam, rarely flooded

Map Unit Composition

Dale: 100 percent

Component Descriptions

Dale

MLRA: 80A - Central Rolling Red Prairies
Landform: Terrace on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.8 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Negligible
Ecological site: Loamy Terrace (pe24-32)
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 22 inches; silt loam
 H2—22 to 60 inches; silt loam

Minor Components

Unnamed Wet Soils

Phase: Loamy, Depression

Unnamed Wet Soils

Phase: Loamy, Drainageway

077PT—Pratt-Tivoli loamy fine sands, 8 to 15 percent slopes

Map Unit Composition

Pratt: 50 percent

Tivoli: 50 percent

Component Descriptions

Pratt

MLRA: 79 - Great Bend Sand Plains
Landform: Dune on paleoterrace on river valley
Parent material: Sandy eolian deposits
Slope: 8 to 15 percent
Drainage class: Well drained
Slowest permeability: Rapid (About 5.95 in/hr)
Available water capacity: Moderate (About 6.2 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Low

Ecological site: Sands (pe24-32)

Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 12 inches; loamy fine sand

H2—12 to 20 inches; loamy fine sand

H3—20 to 60 inches; fine sand

Tivoli

MLRA: 79 - Great Bend Sand Plains

Landform: Dune on paleoterrace on river valley

Parent material: Sandy eolian deposits

Slope: 8 to 15 percent

Drainage class: Excessively drained

Slowest permeability: Rapid (About 5.95 in/hr)

Available water capacity: Low (About 3.2 inches)

Shrink-swell potential: Low (About 1.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Low

Ecological site: Sands (pe24-32)

Land capability (nonirrigated): 7e

Typical Profile:

H1—0 to 5 inches; loamy fine sand

H2—5 to 60 inches; fine sand

Minor Components

Carwile

Unnamed Wet Soils

Phase: Sandy, Depression

077SO—Shellabarger and Albion Soils, 7 to 15 percent slopes

Map Unit Composition

Shellabarger: 70 percent

Albion: 30 percent

Component Descriptions

Shellabarger

MLRA: 79 - Great Bend Sand Plains

Landform: Paleoterrace on river valley

Parent material: Loamy alluvium

Slope: 7 to 15 percent

Drainage class: Well drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: Moderate (About 8.8 inches)

Shrink-swell potential: Low (About 1.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Sandy (pe24-32)

Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 13 inches; fine sandy loam

H2—13 to 38 inches; sandy clay loam

H3—38 to 60 inches; coarse sandy loam

Albion

MLRA: 79 - Great Bend Sand Plains

Landform: Paleoterrace on river valley

Parent material: Loamy alluvium

Slope: 7 to 15 percent

Drainage class: Well drained

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

Available water capacity: Low (About 5.8 inches)

Shrink-swell potential: Low (About 1.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Sandy (pe24-32)

Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 6 inches; sandy loam

H2—6 to 21 inches; sandy loam

H3—21 to 60 inches; loamy sand

Minor Components

Unnamed Wet Soils

Phase: Loamy, Drainageway

077TH—Tivoli fine sand, 8 to 15 percent slopes

Map Unit Composition

Tivoli: 100 percent

Component Descriptions

Tivoli

MLRA: 79 - Great Bend Sand Plains

Landform: Dune on paleoterrace on river valley
Parent material: Sandy eolian deposits
Slope: 8 to 15 percent
Drainage class: Excessively drained
Slowest permeability: Rapid (About 5.95 in/hr)
Available water capacity: Very low (About 3.0 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Choppy Sands (pe24-32)
Land capability (nonirrigated): 7e

Typical Profile:

H1—0 to 5 inches; fine sand
H2—5 to 60 inches; fine sand

095DA—Dillwyn-Plevna complex, occasionally flooded

Map Unit Composition

Dillwyn: 60 percent
Plevna: 40 percent

Component Descriptions

Dillwyn

MLRA: 79 - Great Bend Sand Plains
Landform: Dune on paleoterrace on river valley, interdune on paleoterrace on river valley
Parent material: Sandy eolian deposits
Slope: 0 to 1 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Rapid (About 5.95 in/hr)
Available water capacity: Low (About 4.9 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 12 to 36 inches
Runoff class: Negligible
Ecological site: Subirrigated (pe24-32)
Land capability (nonirrigated): 4w

Typical Profile:

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

Plevna

MLRA: 79 - Great Bend Sand Plains
Landform: Flood plain on river valley

Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Poorly drained
Slowest permeability: Moderately rapid (About 2.00 in/hr)
Available water capacity: Moderate (About 6.5 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: About 0 to 24 inches
Runoff class: Negligible
Ecological site: Subirrigated (pe24-32)
Land capability (nonirrigated): 5w

Typical Profile:

H1—0 to 11 inches; fine sandy loam
H2—11 to 36 inches; fine sandy loam
H3—36 to 60 inches; sand

Minor Components

Unnamed Wet Soils

Phase: Sandy, Depression

095OA—Wellsford clay loam, 1 to 4 percent slopes

Map Unit Composition

Wellsford: 100 percent

Component Descriptions

Wellsford

MLRA: -
Landform: Hillslope on upland
Parent material: Residuum
Slope: 1 to 4 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Very low (About 1.9 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: Red Clay Prairie (pe24-32)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 6 inches; clay loam
 H2—6 to 16 inches; clay
 Cr—16 to 16 inches; weathered bedrock

095RA—Renfrow clay loam, 1 to 3 percent slopes

Map Unit Composition

Renfrow: 100 percent

Component Descriptions

Renfrow

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 0 to 3 percent
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 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: More than 6 feet
Runoff class: Low
Ecological site: Clay Upland (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 8 inches; clay loam
 H2—8 to 12 inches; clay loam
 H3—12 to 50 inches; clay

173EA—Elandco silt loam, rarely flooded

Map Unit Composition

Elandco: 100 percent

Component Descriptions

Elandco

MLRA: 79 - Great Bend Sand Plains
Landform: Flood plain on river valley
Parent material: Alluvium
Slope: 0 to 1 percent

Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.2 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Negligible
Ecological site: Loamy Terrace (pe24-32)
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 40 inches; silt loam
 H2—40 to 60 inches; silt loam

Minor Components Unnamed Hydric Soils

Unnamed Hydric Soils

Unnamed Wet Soils

Phase: Loamy, Drainageway

173LA—Lesho loam, occasionally flooded

Map Unit Composition

Lesho: 100 percent

Component Descriptions

Lesho

MLRA: 80A - Central Rolling Red Prairies
Landform: Flood plain on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: Moderate (About 7.1 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Occasional
Depth to seasonal water saturation: About 24 to 48 inches
Runoff class: Negligible
Ecological site: Subirrigated (pe24-32)
Land capability (nonirrigated): 3w

Typical Profile:

H1—0 to 10 inches; loam
 H2—10 to 27 inches; loam
 H3—27 to 60 inches; fine sand

Minor Components**Plevna****Unnamed Hydric Soils****Unnamed Hydric Soils****173PB—Plevna fine sandy loam, frequently flooded****Map Unit Composition**

Plevna: 100 percent

Component Descriptions**Plevna**

MLRA: 79 - Great Bend Sand Plains
Landform: Flood plain on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Poorly drained
Slowest permeability: Moderately rapid (About 2.00 in/hr)
Available water capacity: Moderate (About 6.4 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: About 0 to 24 inches
Runoff class: Negligible
Ecological site: Subirrigated (pe24-32)
Land capability (nonirrigated): 5w

Typical Profile:

H1—0 to 9 inches; fine sandy loam
 H2—9 to 35 inches; sandy loam
 H3—35 to 60 inches; fine sand

Minor Components**Unnamed Wet Soils**

Phase: Sandy, Drainageway

Unnamed Wet Soils

Phase: Sandy, Depression

173RA—Renfrow silty clay loam, 1 to 3 percent slopes**Map Unit Composition**

Renfrow: 100 percent

Component Descriptions**Renfrow**

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 1 to 3 percent
Drainage class: Well 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: More than 6 feet
Runoff class: Low
Ecological site: Red Clay Prairie (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 9 inches; silty clay loam
 H2—9 to 13 inches; silty clay loam
 H3—13 to 60 inches; silty clay

1439—Crisfield sandy loam, rarely flooded**Map Unit Composition**

Crisfield: 100 percent

Component Descriptions**Crisfield**

MLRA: 80A - Central Rolling Red Prairies
Landform: Terrace on river valley
Parent material: Alluvium
Slope: 0 to 2 percent
Drainage class: Moderately well drained
Slowest permeability: Moderately rapid (About 2.00 in/hr)
Available water capacity: Low (About 4.2 inches)
Shrink-swell potential: Low (About 1.5 LEP)

Flooding hazard: Rare
Depth to seasonal water saturation: About 40 to 73 inches
Runoff class: Negligible
Ecological site: Sandy Terrace (pe24-32)
Land capability (nonirrigated): 3s

Typical Profile:

H1—0 to 12 inches; sandy loam
 H2—12 to 24 inches; sandy loam
 H3—24 to 80 inches; coarse sand

Minor Components

Unnamed Wet Soils

Phase: Loamy, Depression

AED—Arents, Earthen Dam

Ba—Bethany silt loam, 0 to 1 percent slopes

Map Unit Composition

Bethany: 100 percent

Component Descriptions

Bethany

MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace on upland
Parent material: Alluvium and/or loess over shale
Slope: 0 to 1 percent
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 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: Very low
Ecological site: Loamy Upland (pe24-32)
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 14 inches; silt loam
 H2—14 to 18 inches; silty clay loam
 H3—18 to 80 inches; clay

Minor Components

Unnamed Wet Soils

Phase: Clayey, Depression

Bb—Bethany silt loam, 1 to 3 percent slopes

Map Unit Composition

Bethany: 100 percent

Component Descriptions

Bethany

MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace on upland
Parent material: Alluvium and/or loess over shale
Slope: 1 to 3 percent
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 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: Low
Ecological site: Loamy Upland (pe24-32)
Land capability (nonirrigated): 2e

Typical Profile:

H1—0 to 14 inches; silt loam
 H2—14 to 18 inches; silty clay loam
 H3—18 to 80 inches; clay

BOA—Borrow Areas

Br—Brewer silty clay loam, rarely flooded

Map Unit Composition

Brewer: 100 percent

Component Descriptions

Brewer

MLRA: 80A - Central Rolling Red Prairies
Landform: Flood plain
Parent material: Alluvium
Slope: 0 to 1 percent

Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 10.4 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Negligible
Ecological site: Loamy Terrace (pe24-32)
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 12 inches; silty clay loam
 H2—12 to 50 inches; silty clay
 H3—50 to 80 inches; silty clay loam

Bs—Brewer-Drummond silty clay loams, rarely flooded

Map Unit Composition

Brewer: 70 percent
 Drummond: 30 percent

Component Descriptions

Brewer

MLRA: 80A - Central Rolling Red Prairies
Landform: Flood plain
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Well drained
Slowest permeability: Slow (About 0.06 in/hr)
Available water capacity: High (About 10.4 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: More than 6 feet
Runoff class: Negligible
Ecological site: Loamy Terrace (pe24-32)
Land capability (nonirrigated): 2s

Typical Profile:

H1—0 to 12 inches; silty clay loam
 H2—12 to 50 inches; silty clay
 H3—50 to 80 inches; silty clay loam

Drummond

MLRA: 80A - Central Rolling Red Prairies
Landform: Terrace on river valley
Parent material: Clayey and/or loamy alluvium
Slope: 0 to 1 percent

Drainage class: Somewhat poorly drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Low (About 4.2 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: Rare
Depth to seasonal water saturation: About 24 to 72 inches
Runoff class: Negligible
Ecological site: Saline Lowland (pe24-32)
Land capability (nonirrigated): 6s

Typical Profile:

H1—0 to 8 inches; silty clay loam
 H2—8 to 30 inches; silty clay loam
 H3—30 to 60 inches; variable

Minor Components

Unnamed Wet Soils

Phase: Clayey, Depression

Ca—Canadian sandy loam, rarely flooded

Map Unit Composition

Canadian: 100 percent

Component Descriptions

Canadian

MLRA: 80A - Central Rolling Red Prairies
Landform: River valley, flood plain
Parent material: Alluvium
Slope: 0 to 2 percent
Drainage class: Well drained
Slowest permeability: Moderately rapid (About 1.98 in/hr)
Available water capacity: Moderate (About 8.4 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: Sandy Terrace (pe24-32)
Land capability (nonirrigated): 2e

Typical Profile:

H1—0 to 15 inches; sandy loam
 H2—15 to 40 inches; fine sandy loam
 H3—40 to 60 inches; loamy fine sand

**CAA—Canadian fine sandy loam,
rarely flooded****Map Unit Composition**

Canadian: 90 percent
Minor components: 10 percent

Component Descriptions**Canadian**

MLRA: 80A - Central Rolling Red Prairies

Landform: Flood plain on river valley

Parent material: Coarse-loamy alluvium

Slope: 0 to 1 percent

Drainage class: Well drained

Slowest permeability: Moderately rapid (About 1.98 in/hr)

Available water capacity: Moderate (About 8.1 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: Sandy Terrace (pe24-32)

Land capability (nonirrigated): 2s

Typical Profile:

H1—0 to 28 inches; fine sandy loam

H2—28 to 36 inches; fine sandy loam

H3—36 to 60 inches; fine sandy loam

Minor Components**Lesho**

Composition: About 5 percent

Slope: 0 to 1 percent

Depth to restrictive feature: inches to strongly contrasting textural stratification

Drainage class: Somewhat poorly drained

Ecological site: Subirrigated (pe24-32)

Dale

Composition: About 5 percent

Slope: 0 to 1 percent

Drainage class: Well drained

Ecological site: Loamy Terrace (pe24-32)

**Cc—Carwile Soils, 0 to 1 percent
slopes****Map Unit Composition**

Carwile: 100 percent

Component Descriptions**Carwile**

MLRA: 80A - Central Rolling Red Prairies

Landform: Depression on paleoterrace on river valley

Parent material: Alluvium

Slope: 0 to 1 percent

Drainage class: Somewhat poorly drained

Slowest permeability: Slow (About 0.06 in/hr)

Available water capacity: High (About 9.4 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 0 to 0 inches

Runoff class: Negligible

Ecological site: Sandy (pe24-32)

Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 10 inches; fine sandy loam

H2—10 to 15 inches; sandy clay loam

H3—15 to 35 inches; clay

H4—35 to 60 inches; sandy clay loam

Minor Components**Unnamed Wet Soils**

Phase: Loamy, Depression

**Cr—Corbin silt loam, 0 to 2
percent slopes****Map Unit Composition**

Corbin: 100 percent

Component Descriptions

Corbin

MLRA: 80A - Central Rolling Red Prairies

Landform: Hillslope on upland

Parent material: Alluvium

Slope: 0 to 2 percent

Drainage class: 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: Low

Ecological site: Loamy Upland (pe24-32)

Land capability (nonirrigated): 2e

Typical Profile:

H1—0 to 12 inches; silt loam

H2—12 to 31 inches; silty clay loam

H3—31 to 60 inches; silty clay

H4—60 to 70 inches; silty clay loam

Da—Dale silt loam, 2 to 8 percent slopes

Map Unit Composition

Dale: 100 percent

Component Descriptions

Dale

MLRA: 80A - Central Rolling Red Prairies

Landform: Flood plain

Parent material: Alluvium

Slope: 2 to 8 percent

Drainage class: Well drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: High (About 11.8 inches)

Shrink-swell potential: Moderate (About 4.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Terrace (pe24-32)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 21 inches; silt loam

H2—21 to 60 inches; silt loam

Dr—Dale and Reinach silt loams, rarely flooded

Map Unit Composition

Dale: 50 percent

Reinach: 50 percent

Component Descriptions

Dale

MLRA: 80A - Central Rolling Red Prairies

Landform: Flood plain

Parent material: Alluvium

Slope: 0 to 1 percent

Drainage class: Well drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: High (About 11.8 inches)

Shrink-swell potential: Moderate (About 4.5 LEP)

Flooding hazard: Rare

Depth to seasonal water saturation: More than 6 feet

Runoff class: Negligible

Ecological site: Loamy Terrace (pe24-32)

Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 21 inches; silt loam

H2—21 to 60 inches; silt loam

Reinach

MLRA: 80A - Central Rolling Red Prairies

Landform: Flood plain

Parent material: Alluvium

Slope: 0 to 1 percent

Drainage class: Well drained

Slowest permeability: Moderate (About 0.60 in/hr)

Available water capacity: High (About 11.2 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 (pe24-32)

Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 80 inches; silt loam

Ea—Elandco silty clay loam, rarely flooded**Map Unit Composition**

Elandco: 100 percent

Component Descriptions**Elandco***MLRA:* 80A - Central Rolling Red Prairies*Landform:* Flood plain on river valley*Parent material:* Alluvium*Slope:* 0 to 1 percent*Drainage class:* Well drained*Slowest permeability:* Moderate (About 0.60 in/hr)*Available water capacity:* High (About 11.2 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 (pe24-32)*Land capability (nonirrigated):* 2w*Typical Profile:*

H1—0 to 40 inches; silty clay loam

H2—40 to 62 inches; silty clay loam

Minor Components**Unnamed Wet Soils***Phase:* Clayey, Drainageway**Unnamed Wet Soils***Phase:* Clayey, Depression**Ec—Elandco silt loam, frequently flooded****Map Unit Composition**

Elandco: 100 percent

Component Descriptions**Elandco***MLRA:* 80A - Central Rolling Red Prairies*Landform:* Flood plain on river valley*Parent material:* Alluvium*Slope:* 0 to 1 percent*Drainage class:* Well drained*Slowest permeability:* Moderate (About 0.60 in/hr)*Available water capacity:* High (About 11.2 inches)*Shrink-swell potential:* Moderate (About 4.5 LEP)*Flooding hazard:* Frequent*Depth to seasonal water saturation:* More than 6 feet*Runoff class:* Negligible*Ecological site:* Loamy Lowland (pe24-32)*Land capability (nonirrigated):* 5w*Typical Profile:*

H1—0 to 40 inches; silt loam

H2—40 to 62 inches; silty clay loam

Minor Components**Unnamed Wet Soils***Phase:* Clayey, Drainageway**Unnamed Wet Soils***Phase:* Clayey, Depression**Fa—Farnum loam, 0 to 1 percent slopes****Map Unit Composition**

Farnum: 100 percent

Component Descriptions**Farnum***MLRA:* 79 - Great Bend Sand Plains*Landform:* Paleoterrace on river valley*Parent material:* Alluvium*Slope:* 0 to 1 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 4.5 LEP)*Flooding hazard:* None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Very low

Ecological site: Loamy Upland (pe24-32)

Land capability (irrigated): 1

Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 16 inches; loam

H2—16 to 22 inches; loam

H3—22 to 44 inches; clay loam

H4—44 to 76 inches; clay loam

Minor Components

Unnamed Wet Soils

Phase: Loamy, Depression

Fb—Farnum loam, 1 to 3 percent slopes

Map Unit Composition

Farnum: 100 percent

Component Descriptions

Farnum

MLRA: 79 - Great Bend Sand Plains

Landform: Paleoterrace on river valley

Parent material: Alluvium

Slope: 1 to 3 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 4.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Low

Ecological site: Loamy Upland (pe24-32)

Land capability (irrigated): 2e

Land capability (nonirrigated): 2e

Typical Profile:

H1—0 to 16 inches; loam

H2—16 to 22 inches; loam

H3—22 to 44 inches; clay loam

H4—44 to 76 inches; clay loam

Minor Components

Unnamed Wet Soils

Phase: Loamy, Depression

Fc—Farnum loam, 3 to 6 percent slopes

Map Unit Composition

Farnum: 100 percent

Component Descriptions

Farnum

MLRA: 79 - Great Bend Sand Plains

Landform: Paleoterrace on river valley

Parent material: Alluvium

Slope: 3 to 6 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 4.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Upland (pe24-32)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 16 inches; loam

H2—16 to 22 inches; loam

H3—22 to 44 inches; clay loam

H4—44 to 76 inches; clay loam

Fd—Farnum loam, 2 to 6 percent slopes, eroded

Map Unit Composition

Farnum: 100 percent

Component Descriptions

Farnum

MLRA: 79 - Great Bend Sand Plains

Landform: Paleoterrace on river valley

Parent material: Alluvium

Slope: 2 to 6 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 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 16 inches; loam
 H2—16 to 22 inches; loam
 H3—22 to 44 inches; clay loam
 H4—44 to 76 inches; clay loam

GRP—Gravel Pits

INT—Aquolls

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

Map Unit Composition

Irwin: 85 percent
 Minor components: 15 percent

Component Descriptions

Irwin

MLRA: 80A - Central Rolling Red Prairies, 75 - Central Loess Plains
Landform: Hillslope on upland
Parent material: Silty and clayey residuum weathered from shale, clayey
Slope: 1 to 3 percent
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.8 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very high

Ecological site: Clay Upland (pe25-34)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 13 inches; silty clay loam
 H2—13 to 40 inches; silty clay
 H3—40 to 60 inches; silty clay

Minor Components

Rosehill

Composition: About 5 percent
Landform: hillslope on upland
Slope: 1 to 3 percent
Depth to restrictive feature: 20 to 40 inches to bedrock (paralithic)
Drainage class: Well drained
Ecological site: Clay Upland (pe25-34)

Dwight

Composition: About 5 percent
Slope: 0 to 2 percent
Depth to restrictive feature: 40 to 60 inches to bedrock (lithic)
Drainage class: Moderately well drained
Ecological site: Clay Pan (pe30-36)

Smolan

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

Ka—Kirkland silt loam, 0 to 1 percent slopes

Map Unit Composition

Kirkland: 100 percent

Component Descriptions

Kirkland

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 0 to 1 percent
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.2 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet

Runoff class: Very low
Ecological site: Clay Upland (pe24-32)
Land capability (nonirrigated): 2s

Typical Profile:

H1—0 to 10 inches; silt loam
 H2—10 to 42 inches; clay
 H3—42 to 72 inches; clay
 H4—72 to 80 inches; weathered bedrock

Kb—Kirkland silt loam, 1 to 3 percent slopes

Map Unit Composition

Kirkland: 100 percent

Component Descriptions

Kirkland

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 1 to 3 percent
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Moderate (About 8.2 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Clay Upland (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 10 inches; silt loam
 H2—10 to 42 inches; clay
 H3—42 to 72 inches; clay
 H4—72 to 80 inches; weathered bedrock

Kc—Kirkland silty clay loam, 1 to 3 percent slopes, eroded

Map Unit Composition

Kirkland: 100 percent

Component Descriptions

Kirkland

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 1 to 3 percent
Drainage class: 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: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Clay Upland (pe24-32)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 10 inches; silty clay loam
 H2—10 to 42 inches; clay
 H3—42 to 72 inches; clay
 H4—72 to 80 inches; weathered bedrock

Lo—Lesho clay loam, occasionally flooded

Map Unit Composition

Lesho: 100 percent

Component Descriptions

Lesho

MLRA: 80A - Central Rolling Red Prairies
Landform: Flood plain on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Somewhat poorly drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: Moderate (About 7.4 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Occasional
Depth to seasonal water saturation: About 24 to 48 inches
Runoff class: Negligible
Ecological site: Subirrigated (pe24-32)
Land capability (nonirrigated): 3w

Typical Profile:

H1—0 to 18 inches; clay loam
 H2—18 to 32 inches; clay loam
 H3—32 to 60 inches; fine sand

Minor Components**Unnamed Wet Soils**

Phase: Loamy, Drainageway

Ls—Lincoln Soils, frequently flooded**Map Unit Composition**

Lincoln: 100 percent

Component Descriptions**Lincoln**

MLRA: 80A - Central Rolling Red Prairies
Landform: Flood plain on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Somewhat excessively drained
Slowest permeability: Rapid (About 5.95 in/hr)
Available water capacity: Low (About 3.4 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: About 60 to 72 inches
Runoff class: Negligible
Ecological site: Sandy Lowland (pe24-32)
Land capability (nonirrigated): 6w

Typical Profile:

H1—0 to 11 inches; loamy fine sand
 H2—11 to 60 inches; stratified fine sand to clay loam

Minor Components**Unnamed Wet Soils**

Phase: Sandy, Drainageway

M-W—Miscellaneous Water**Ma—Milan loam, 0 to 1 percent slopes****Map Unit Composition**

Milan: 100 percent

Component Descriptions**Milan**

MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 10.9 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very low
Ecological site: Loamy Upland (pe24-32)
Land capability (irrigated): 1
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 10 inches; loam
 H2—10 to 70 inches; clay loam

Mb—Milan loam, 1 to 3 percent slopes**Map Unit Composition**

Milan: 100 percent

Component Descriptions**Milan**

MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace on river valley
Parent material: Alluvium
Slope: 1 to 3 percent
Drainage class: Well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 10.9 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Upland (pe24-32)

Land capability (irrigated): 2e
Land capability (nonirrigated): 2e

Typical Profile:
 H1—0 to 10 inches; loam
 H2—10 to 70 inches; clay loam

Mc—Milan loam, 3 to 6 percent slopes

Map Unit Composition

Milan: 100 percent

Component Descriptions

Milan
MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace on river valley
Parent material: Alluvium
Slope: 3 to 6 percent
Drainage class: Well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 10.9 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 (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:
 H1—0 to 10 inches; loam
 H2—10 to 70 inches; clay loam

Md—Milan loam, 3 to 6 percent slopes, eroded

Map Unit Composition

Milan: 100 percent

Component Descriptions

Milan
MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace on river valley
Parent material: Alluvium
Slope: 3 to 6 percent
Drainage class: Well drained
Slowest permeability: Moderately slow (About 0.20 in/hr)
Available water capacity: High (About 10.9 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 (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:
 H1—0 to 10 inches; loam
 H2—10 to 70 inches; clay loam

On—Wellsford clay loam, 1 to 3 percent slopes

Map Unit Composition

Wellsford: 100 percent

Component Descriptions

Wellsford
MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 1 to 3 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Very low (About 1.7 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Red Clay Prairie (pe24-32)
Land capability (nonirrigated): 4e

Typical Profile:

- H1—0 to 5 inches; clay loam
- H2—5 to 17 inches; clay
- H3—17 to 21 inches; weathered bedrock

Oo—Wellsford clay loam, 3 to 8 percent slopes**Map Unit Composition**

Wellsford: 100 percent

Component Descriptions**Wellsford**

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 3 to 8 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Very low (About 1.7 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: Red Clay Prairie (pe24-32)
Land capability (nonirrigated): 6e

Typical Profile:

- H1—0 to 5 inches; clay loam
- H2—5 to 17 inches; clay
- H3—17 to 21 inches; weathered bedrock

Op—Wellsford-Elandco complex, 0 to 25 percent slopes**Map Unit Composition**

Wellsford: 65 percent
 Elandco: 35 percent

Component Descriptions**Wellsford**

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 2 to 25 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Very low (About 1.7 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: Red Clay Prairie (pe24-32)
Land capability (nonirrigated): 6e

Typical Profile:

- H1—0 to 5 inches; clay loam
- H2—5 to 17 inches; clay
- H3—17 to 21 inches; weathered bedrock

Elandco

MLRA: 80A - Central Rolling Red Prairies
Landform: Flood plain on river valley
Parent material: Alluvium
Slope: 0 to 1 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.2 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: Frequent
Depth to seasonal water saturation: More than 6 feet
Runoff class: Negligible
Ecological site: Loamy Lowland (pe24-32)
Land capability (nonirrigated): 5w

Typical Profile:

- H1—0 to 40 inches; silt loam
- H2—40 to 62 inches; silty clay loam

Or—Wellsford-Renfrow clay loams, 2 to 6 percent slopes, eroded

Map Unit Composition

Wellsford: 65 percent
Renfrow: 35 percent

Component Descriptions

Wellsford

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 2 to 6 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Very low (About 1.7 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: Red Clay Prairie (pe24-32)
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 5 inches; clay loam
H2—5 to 17 inches; clay
H3—17 to 21 inches; weathered bedrock

Renfrow

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 2 to 5 percent
Drainage class: Well 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: More than 6 feet
Runoff class: Medium
Ecological site: Clay Upland (pe24-32)
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 9 inches; clay loam
H2—9 to 13 inches; silty clay loam
H3—13 to 75 inches; clay

Os—Wellsford-Shale Outcrop complex, 8 to 25 percent slopes

Map Unit Composition

Wellsford: 65 percent
Shale Outcrop: 35 percent

Component Descriptions

Wellsford

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 8 to 25 percent
Depth to restrictive feature: 10 to 20 inches to bedrock (paralithic)
Drainage class: Well drained
Slowest permeability: Very slow (About 0.00 in/hr)
Available water capacity: Very low (About 1.7 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: Red Clay Prairie (pe24-32)
Land capability (nonirrigated): 6e

Typical Profile:

H1—0 to 5 inches; clay loam
H2—5 to 17 inches; clay
H3—17 to 21 inches; weathered bedrock

Shale Outcrop

MLRA: 80A - Central Rolling Red Prairies

Pa—Pond Creek silt loam, 0 to 1 percent slopes

Map Unit Composition

Pond Creek: 100 percent

Component Descriptions

Pond Creek

MLRA: 80A - Central Rolling Red Prairies

Landform: Terrace

Parent material: Alluvium

Slope: 0 to 1 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: Moderate (About 4.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Negligible

Ecological site: Loamy Upland (pe24-32)

Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 12 inches; silt loam

H2—12 to 68 inches; clay loam

Pb—Pond Creek silt loam, 1 to 3 percent slopes

Map Unit Composition

Pond Creek: 100 percent

Component Descriptions

Pond Creek

MLRA: 80A - Central Rolling Red Prairies

Landform: Terrace

Parent material: Alluvium

Slope: 1 to 3 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: Moderate (About 4.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Very low

Ecological site: Loamy Upland (pe24-32)

Land capability (nonirrigated): 2e

Typical Profile:

H1—0 to 12 inches; silt loam

H2—12 to 68 inches; clay loam

Pc—Pond Creek silt loam, 3 to 6 percent slopes

Map Unit Composition

Pond Creek: 100 percent

Component Descriptions

Pond Creek

MLRA: 80A - Central Rolling Red Prairies

Landform: Terrace

Parent material: Alluvium

Slope: 3 to 6 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: Moderate (About 4.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Medium

Ecological site: Loamy Upland (pe24-32)

Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 12 inches; silt loam

H2—12 to 68 inches; clay loam

Pd—Pond Creek silty clay loam, 2 to 6 percent slopes, eroded

Map Unit Composition

Pond Creek: 100 percent

Component Descriptions

Pond Creek

MLRA: 80A - Central Rolling Red Prairies

Landform: Terrace

Parent material: Alluvium

Slope: 2 to 6 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: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Loamy Upland (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 12 inches; silty clay loam
 H2—12 to 68 inches; silty clay loam

Px—Pratt loamy fine sand, 3 to 8 percent slopes

Map Unit Composition

Pratt: 100 percent

Component Descriptions

Pratt

MLRA: 80A - Central Rolling Red Prairies
Landform: Dune on paleoterrace on river valley
Parent material: Sandy eolian deposits
Slope: 3 to 8 percent
Drainage class: Well drained
Slowest permeability: Rapid (About 5.95 in/hr)
Available water capacity: Moderate (About 6.4 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Sands (pe24-32)
Land capability (irrigated): 3e
Land capability (nonirrigated): 4e

Typical Profile:

H1—0 to 12 inches; loamy fine sand
 H2—12 to 40 inches; loamy fine sand
 H3—40 to 60 inches; fine sand

Minor Components

Carwile

Unnamed Wet Soils

Phase: Sandy, Depression

Ra—Renfrow-Grainola complex, 1 to 3 percent slopes

Map Unit Composition

Renfrow: 70 percent

Grainola: 30 percent

Component Descriptions

Renfrow

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
Slope: 1 to 3 percent
Drainage class: Well 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: More than 6 feet
Runoff class: Low
Ecological site: Clay Upland (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 9 inches; clay loam
 H2—9 to 13 inches; silty clay loam
 H3—13 to 75 inches; silty clay loam

Grainola

MLRA: 80A - Central Rolling Red Prairies
Landform: Hillslope on upland
Parent material: Residuum
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 5.5 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Clay Upland (pe24-32)

Land capability (nonirrigated): 3e

Typical Profile:

- H1—0 to 8 inches; silt loam
- H2—8 to 28 inches; silty clay
- H3—28 to 36 inches; clay
- H4—36 to 42 inches; weathered bedrock

Ro—Rosehill clay loam, 1 to 3 percent slopes

Map Unit Composition

Rosehill: 100 percent

Component Descriptions

Rosehill

MLRA: 80A - Central Rolling Red Prairies

Landform: Hillslope on upland

Parent material: Residuum

Slope: 1 to 3 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 4.8 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: More than 6 feet

Runoff class: Low

Ecological site: Clay Upland (pe24-32)

Land capability (nonirrigated): 3e

Typical Profile:

- H1—0 to 9 inches; clay loam
- H2—9 to 36 inches; clay
- H3—36 to 40 inches; unweathered bedrock

Rs—Rosehill clay loam, 3 to 6 percent slopes

Map Unit Composition

Rosehill: 100 percent

Component Descriptions

Rosehill

MLRA: 80A - Central Rolling Red Prairies

Landform: Hillslope on upland

Parent material: Residuum

Slope: 3 to 6 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 4.8 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 (pe24-32)

Land capability (nonirrigated): 4e

Typical Profile:

- H1—0 to 9 inches; clay loam
- H2—9 to 36 inches; clay
- H3—36 to 40 inches; unweathered bedrock

Rx—Rosehill clay loam, 2 to 6 percent slopes, eroded

Map Unit Composition

Rosehill: 100 percent

Component Descriptions

Rosehill

MLRA: 80A - Central Rolling Red Prairies

Landform: Hillslope on upland

Parent material: Residuum

Slope: 2 to 6 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 4.8 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 (pe24-32)

Land capability (nonirrigated): 4e

Typical Profile:

- H1—0 to 9 inches; clay loam
- H2—9 to 36 inches; clay
- H3—36 to 40 inches; unweathered bedrock

Sa—Shellabarger sandy loam, 1 to 3 percent slopes**Map Unit Composition**

Shellabarger: 100 percent

Component Descriptions**Shellabarger**

MLRA: 79 - Great Bend Sand Plains
Landform: Paleoterrace on river valley
Parent material: Loamy alluvium
Slope: 1 to 3 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Moderate (About 8.8 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 (pe24-32)
Land capability (nonirrigated): 2e

Typical Profile:

- H1—0 to 13 inches; sandy loam
- H2—13 to 38 inches; sandy clay loam
- H3—38 to 60 inches; coarse sandy loam

Minor Components**Carwile****Unnamed Wet Soils**

Phase: Loamy, Depression

Sb—Shellabarger sandy loam, 3 to 6 percent slopes**Map Unit Composition**

Shellabarger: 100 percent

Component Descriptions**Shellabarger**

MLRA: 79 - Great Bend Sand Plains
Landform: Paleoterrace on river valley
Parent material: Loamy alluvium
Slope: 3 to 6 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Moderate (About 8.8 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Sandy (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

- H1—0 to 13 inches; sandy loam
- H2—13 to 38 inches; sandy clay loam
- H3—38 to 60 inches; coarse sandy loam

Sc—Shellabarger sandy loam, 3 to 6 percent slopes, eroded**Map Unit Composition**

Shellabarger: 100 percent

Component Descriptions**Shellabarger**

MLRA: 79 - Great Bend Sand Plains
Landform: Paleoterrace on river valley
Parent material: Loamy alluvium
Slope: 3 to 6 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: Moderate (About 8.8 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Medium
Ecological site: Sandy (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 13 inches; sandy loam
 H2—13 to 38 inches; sandy clay loam
 H3—38 to 60 inches; coarse sandy loam

Ta—Tabler silty clay loam, 0 to 1 percent slopes

Map Unit Composition

Tabler: 100 percent

Component Descriptions

Tabler

MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace 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: High (About 9.8 inches)
Shrink-swell potential: High (About 7.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: About 30 to 42 inches
Runoff class: Negligible
Ecological site: Clay Upland (pe24-32)
Land capability (nonirrigated): 2s

Typical Profile:

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

Tv—Tivoli fine sand, 8 to 20 percent slopes

Map Unit Composition

Tivoli: 100 percent

Component Descriptions

Tivoli

MLRA: 79 - Great Bend Sand Plains
Landform: Dune on paleoterrace on river valley
Parent material: Sandy eolian deposits
Slope: 5 to 30 percent

Drainage class: Excessively drained
Slowest permeability: Rapid (About 5.95 in/hr)
Available water capacity: Very low (About 3.0 inches)
Shrink-swell potential: Low (About 1.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Choppy Sands (pe24-32)
Land capability (nonirrigated): 7e

Typical Profile:

H1—0 to 7 inches; fine sand
 H2—7 to 60 inches; fine sand

Us—Ustifluvents, channeled

Map Unit Composition

Ustifluvents: 100 percent

Component Descriptions

Ustifluvents

MLRA: 80A - Central Rolling Red Prairies
Landform: Flood plain
Parent material: Alluvium
Slope: 0 to 30 percent
Runoff class: Very high

Minor Components

Unnamed Wet Soils

Phase: Sandy, Drainageway

Va—Vanoss silt loam, 0 to 1 percent slopes

Map Unit Composition

Vanoss: 100 percent

Component Descriptions

Vanoss

MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace on river valley
Parent material: Alluvium
Slope: 0 to 1 percent

Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.4 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Very low
Ecological site: Loamy Upland (pe24-32)
Land capability (nonirrigated): 1

Typical Profile:

H1—0 to 11 inches; silt loam
 H2—11 to 15 inches; silt loam
 H3—15 to 37 inches; clay loam
 H4—37 to 50 inches; clay loam
 H5—50 to 95 inches; clay loam

Vb—Vanoss silt loam, 1 to 3 percent slopes

Map Unit Composition

Vanoss: 100 percent

Component Descriptions

Vanoss

MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace on river valley
Parent material: Alluvium
Slope: 1 to 3 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.4 inches)
Shrink-swell potential: Moderate (About 4.5 LEP)
Flooding hazard: None
Depth to seasonal water saturation: More than 6 feet
Runoff class: Low
Ecological site: Loamy Upland (pe24-32)
Land capability (nonirrigated): 2e

Typical Profile:

H1—0 to 11 inches; silt loam
 H2—11 to 15 inches; silt loam
 H3—15 to 37 inches; clay loam
 H4—37 to 50 inches; clay loam
 H5—50 to 95 inches; clay loam

Vc—Vanoss silt loam, 3 to 6 percent slopes

Map Unit Composition

Vanoss: 100 percent

Component Descriptions

Vanoss

MLRA: 80A - Central Rolling Red Prairies
Landform: Paleoterrace on river valley
Parent material: Alluvium
Slope: 3 to 6 percent
Drainage class: Well drained
Slowest permeability: Moderate (About 0.60 in/hr)
Available water capacity: High (About 11.4 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: Loamy Upland (pe24-32)
Land capability (nonirrigated): 3e

Typical Profile:

H1—0 to 11 inches; silt loam
 H2—11 to 15 inches; silt loam
 H3—15 to 37 inches; clay loam
 H4—37 to 50 inches; clay loam
 H5—50 to 95 inches; clay loam

W—Water (less Than 40 Acres)

Wa—Waurika silt loam, 0 to 1 percent slopes

Map Unit Composition

Waurika: 100 percent

Component Descriptions**Waurika**

MLRA: 80A - Central Rolling Red Prairies

Landform: Depression on paleoterrace on river valley

Parent material: Old clayey alluvium and/or residuum weathered from shale

Slope: 0 to 1 percent

Drainage class: Somewhat poorly drained

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

Available water capacity: High (About 9.1 inches)

Shrink-swell potential: High (About 7.5 LEP)

Flooding hazard: None

Depth to seasonal water saturation: About 6 to 12 inches

Runoff class: Negligible

Ecological site: Clay Upland (pe24-32)

Land capability (nonirrigated): 2w

Typical Profile:

H1—0 to 12 inches; silt loam

H2—12 to 32 inches; clay

H3—32 to 57 inches; clay

H4—57 to 72 inches; clay loam

Minor Components**Unnamed Wet Soils**

Phase: Loamy, Depression