

## Walker County, Texas

### 16—Ferris clay, 1 to 5 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2ssgy

*Elevation:* 130 to 440 feet

*Mean annual precipitation:* 42 to 49 inches

*Mean annual air temperature:* 66 to 68 degrees F

*Frost-free period:* 219 to 266 days

*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Ferris and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Ferris

##### Setting

*Landform:* Ridges

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Microfeatures of landform position:* Linear gilgai

*Down-slope shape:* Linear

*Across-slope shape:* Convex

*Parent material:* Clayey residuum weathered from mudstone

##### Typical profile

*A - 0 to 6 inches:* clay

*Bkss1 - 6 to 30 inches:* clay

*Bkss2 - 30 to 42 inches:* clay

*Cdk - 42 to 76 inches:* clay

##### Properties and qualities

*Slope:* 1 to 5 percent

*Depth to restrictive feature:* 39 to 60 inches to densic bedrock

*Natural drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 30 percent

*Gypsum, maximum in profile:* 5 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 5.0

*Available water storage in profile:* Moderate (about 6.7 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3e

*Hydrologic Soil Group:* D

*Ecological site:* Eroded Blackland 32-40 PZ (R086BY216TX)

*Hydric soil rating:* No

### **Minor Components**

#### **Heiden**

*Percent of map unit:* 10 percent

*Landform:* Ridges

*Landform position (two-dimensional):* Footslope

*Landform position (three-dimensional):* Base slope

*Microfeatures of landform position:* Linear gilgai

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Ecological site:* Blackland 32-40 PZ (R086BY208TX)

*Hydric soil rating:* No

#### **Ferris, moderately eroded**

*Percent of map unit:* 5 percent

*Landform:* Ridges

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Microfeatures of landform position:* Linear gilgai

*Down-slope shape:* Linear

*Across-slope shape:* Convex

*Ecological site:* Eroded Blackland 32-40 PZ (R086BY216TX)

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Walker County, Texas

Survey Area Data: Version 12, Sep 19, 2016