

## Walker County, Texas

### 17—Ferris clay, gullied

#### Map Unit Setting

*National map unit symbol:* mb9x

*Elevation:* 400 to 1,000 feet

*Mean annual precipitation:* 28 to 42 inches

*Mean annual air temperature:* 64 to 70 degrees F

*Frost-free period:* 230 to 260 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Ferris, severely eroded, and similar soils:* 85 percent

*Minor components:* 15 percent

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

#### Description of Ferris, Severely Eroded

##### 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:* Residuum weathered from calcareous shale in eagleford shale and taylor marl formations of cretaceous age

##### Typical profile

*H1 - 0 to 6 inches:* clay

*H2 - 6 to 40 inches:* clay

*H3 - 40 to 70 inches:* extremely shaly clay

##### Properties and qualities

*Slope:* 3 to 8 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*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 8.7 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* D

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

*Hydric soil rating:* No

**Minor Components**

**Unnamed**

*Percent of map unit:* 15 percent

*Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: Walker County, Texas

Survey Area Data: Version 12, Sep 19, 2016