

Walker County, Texas

33—Leson clay, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2vv5c

Elevation: 350 to 750 feet

Mean annual precipitation: 41 to 52 inches

Mean annual air temperature: 66 to 69 degrees F

Frost-free period: 254 to 280 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Leson and similar soils: 83 percent

Minor components: 17 percent

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

Description of Leson

Setting

Landform: Ridges

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Linear

Across-slope shape: Convex

Parent material: Residuum weathered from calcareous shale

Typical profile

A - 0 to 10 inches: clay

Bss - 10 to 30 inches: clay

Bkss - 30 to 60 inches: clay

Cdk - 60 to 80 inches: clay

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 56 to 60 inches to densic material

Natural drainage class: Moderately 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: 35 percent

Gypsum, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: D

Ecological site: Blackland 32-40 PZ (R086BY208TX)

Hydric soil rating: No

Minor Components

Houston black

Percent of map unit: 10 percent

Landform: Ridges

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Interfluve

Microfeatures of landform position: Linear gilgai

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Ecological site: Blackland 32-40 PZ (R086BY208TX)

Hydric soil rating: No

Redco

Percent of map unit: 7 percent

Landform: Interfluves

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: Blackland 32-40 PZ (R086BY208TX)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Walker County, Texas

Survey Area Data: Version 12, Sep 19, 2016