Walker County, Texas

19—Gladewater clay, frequently flooded

Map Unit Setting

National map unit symbol: mb9z
Elevation: 200 to 400 feet
Mean annual precipitation: 38 to 46 inches
Mean annual air temperature: 64 to 68 degrees F
Frost-free period: 235 to 275 days
Farmland classification: Not prime farmland

Map Unit Composition

Gladewater and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gladewater

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Clayey alluvium

Typical profile

H1 - 0 to 6 inches: clay
H2 - 6 to 65 inches: clay
H3 - 65 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat poorly 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: About 18 to 42 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Gypsum, maximum in profile: 5 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: D
Ecological site: Clayey Bottomland (F133BY018TX)
Hydric soil rating: Yes

Minor Components

Unnamed

Percent of map unit: 10 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Walker County, Texas
Survey Area Data: Version 12, Sep 19, 2016