Wood County, Texas

DrA—Derly, frequently ponded-Raino complex, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: mbf4
Elevation: 150 to 450 feet
Mean annual precipitation: 36 to 48 inches
Mean annual air temperature: 63 to 70 degrees F
Frost-free period: 218 to 275 days
Farmland classification: Not prime farmland

Map Unit Composition

Derly and similar soils: 55 percent
Raino and similar soils: 35 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Derly

Setting

Landform: Depressions on stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Clayey alluvium of quaternary age derived from mixed sources

Typical profile

H1 - 0 to 9 inches: silt loam
H2 - 9 to 21 inches: clay loam
H3 - 21 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
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 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 6.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: D
Ecological site: R087BY001TX - Depression
Hydric soil rating: Yes

Description of Raino

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread
Microfeatures of landform position: Mounds
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Loamy alluvium of pleistocene age derived from mixed sources

Typical profile

H1 - 0 to 10 inches: fine sandy loam
H2 - 10 to 25 inches: loam
H3 - 25 to 35 inches: sandy clay loam
H4 - 35 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Medium
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 24 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: High (about 9.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: C
Ecological site: R087BY002TX - Claypan Savannah
Hydric soil rating: No

Minor Components

Freestone

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Convex

Ecological site: R087BY003TX - Sandy Loam
Hydric soil rating: No

Woodtell

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R087BY002TX - Claypan Savannah
Hydric soil rating: No

Data Source Information

Soil Survey Area: Wood County, Texas
Survey Area Data: Version 20, Aug 24, 2022