

Wood County, Texas

WxB—Woodtell-Raino complex, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: mbg5

Elevation: 250 to 650 feet

Mean annual precipitation: 40 to 48 inches

Mean annual air temperature: 63 to 70 degrees F

Frost-free period: 230 to 275 days

Farmland classification: Not prime farmland

Map Unit Composition

Woodtell and similar soils: 50 percent

Raino and similar soils: 30 percent

Minor components: 20 percent

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

Description of Woodtell

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 sandstone and shale in the wilcox and cook mountain formations of eocene age

Typical profile

H1 - 0 to 10 inches: loam

H2 - 10 to 52 inches: clay

H3 - 52 to 70 inches: clay

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: 40 to 60 inches to densic bedrock

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R087BY002TX - Claypan Savannah
Hydric soil rating: No

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 6 inches: fine sandy loam
H2 - 6 to 16 inches: loam
H3 - 16 to 30 inches: sandy clay loam
H4 - 30 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: 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: 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 9.6 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

Derly

Percent of map unit: 10 percent
Landform: Depressions on stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R087BY001TX - Depression
Hydric soil rating: Yes

Freestone

Percent of map unit: 10 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

Data Source Information

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