

Soils Map and Report

Date: 2/8/2024

Client(s): GALEN RICHAD SHANKS
Location: FN 3589 TN 3159
McCulloch County, Texas
Approximate Acres: 175.00

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NRCS
BRADY SERVICE CENTER
MCCULLOCH SWCD

Land Units: Tract 3159, Fields 123



Prepared with assistance from USDA-Natural Resources Conservation Service

0 752
Feet

Practice Schedule
PLUs

Soils

Soil Mapunit



Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, provide information on the composition of map units and properties of their components.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

McCulloch County, Texas

Map Unit: NuB--Nuvalde clay loam, 1 to 3 percent slopes

Component: Nuvalde (86%)

The Nuvalde component makes up 86 percent of the map unit. Slopes are 1 to 3 percent. This component is on stream terraces on dissected plateaus. The parent material consists of calcareous silty and clayey alluvium derived from limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R081BY326TX Clay Loam 23-31 PZ ecological site. Nonirrigated land capability classification is 2e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 60 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Karnes (4%)

Generated brief soil descriptions are created for major soil components. The Karnes soil is a minor component.

Component: Cho (4%)

Generated brief soil descriptions are created for major soil components. The Cho soil is a minor component.

Component: Luckenbach (4%)

Generated brief soil descriptions are created for major soil components. The Luckenbach soil is a minor component.

Component: Tobosa (2%)



Generated brief soil descriptions are created for major soil components. The Tobosa soil is a minor component.

Map Unit: TAC--Tarrant soils, 1 to 8 percent slopes

Component: Tarrant (89%)

The Tarrant component makes up 89 percent of the map unit. Slopes are 1 to 8 percent. This component is on broad ridges on dissected plateaus. The parent material consists of clayey residuum weathered from limestone. Depth to a root restrictive layer, bedrock, lithic, is 6 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R081BY337TX Low Stony Hill 23-31 PZ ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 22 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Valera (3%)

Generated brief soil descriptions are created for major soil components. The Valera soil is a minor component.

Component: Kavett (2%)

Generated brief soil descriptions are created for major soil components. The Kavett soil is a minor component.

Component: Cho (2%)

Generated brief soil descriptions are created for major soil components. The Cho soil is a minor component.

Component: Rock outcrop (2%)

Generated brief soil descriptions are created for major soil components. The Rock outcrop soil is a minor component.

Component: Tarrant, hilly (1%)

Generated brief soil descriptions are created for major soil components. The Tarrant, hilly soil is a minor component.

Component: Dev (1%)

Generated brief soil descriptions are created for major soil components. The Dev soil is a minor component.

Map Unit: ToB--Leeray clay, 1 to 3 percent slopes

Component: Leeray (85%)

The Leeray component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on ridges on hills. The parent material consists of clayey slope alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R080BY607TX Clayey Upland 26-33 PZ ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Thurber (7%)

Generated brief soil descriptions are created for major soil components. The Thurber soil is a minor component.

Component: Rowden (5%)

Generated brief soil descriptions are created for major soil components. The Rowden soil is a minor component.

Component: Salga (2%)

Generated brief soil descriptions are created for major soil components. The Salga soil is a minor component.

Component: Unnamed, hydric (1%)

Generated brief soil descriptions are created for major soil components. The Unnamed, hydric soil is a minor component.

Map Unit: VaB--Valera clay, 1 to 3 percent slopes

Component: Valera (85%)

The Valera component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on



hillslopes on dissected plateaus. The parent material consists of clayey slope alluvium derived from limestone. Depth to a root restrictive layer, petrocalcic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R081BY326TX Clay Loam 23-31 PZ ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 60 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Kavett (10%)

Generated brief soil descriptions are created for major soil components. The Kavett soil is a minor component.

Component: Tobosa (4%)

Generated brief soil descriptions are created for major soil components. The Tobosa soil is a minor component.

Component: Unnamed, hydric (1%)

Generated brief soil descriptions are created for major soil components. The Unnamed, hydric soil is a minor component.

Data Source Information

Soil Survey Area: McCulloch County, Texas

Survey Area Data: Version 18, Sep 05, 2023

Soils Inventory Report

Tract	Land Unit	Map Unit Symbol	Map Unit Name	Acres	Percent
3159	123	NuB	Nuvalde clay loam, 1 to 3 percent slopes	0.9	1%
3159	123	TAC	Tarrant soils, 1 to 8 percent slopes	149.5	85%
3159	123	ToB	Leeray clay, 1 to 3 percent slopes	0.9	1%
3159	123	VaB	Valera clay, 1 to 3 percent slopes	23.9	14%
Total				175.2	100%
Grand Total				175.2	100%