

Major Land Resource Area 083D

Lower Rio Grande Plain

Accessed: 12/18/2025

Ecological site keys

MLRA 83D

- I. Depth to densic material less than 40 inches
 - A. Soils with gravels in epipedon
 - 1. Greater than 15 percent of soil surface covered by large pebbles
 - 2. Less than 15 percent of soil surface covered by large pebbles
 - i. Strongly cemented calcium carbonate within 20 inches
 - ii. All others ... R083DY003TX – Gravelly Ridge
 - B. Soils without gravels in epipedon
 - 1. Soils with sandy loam or loam surface texture ... R083DY004TX – Shallow Sandy Loam
 - 2. All others
- II. Soils are deep to very deep, greater than 40 inches
 - A. Soils on depressions, drainageways, or flood plains
 - 1. Soils in a closed depression
 - i. Permanent water table at/or near surface and ponded for most of year ... R083DY006TX – Fresh Marsh
 - ii. Soils with fluctuating water table levels and ponded after heavy rains ... R083DY007TX – Lakebed
 - 2. Soils in floodplain or drainageway
 - i. Visible salts within 40 inches
 - ii. All others
 - a. Soils with fine surface textures (clay and silty clay) ... R083DY009TX – Clayey Bottomland
 - b. All others
 - 1) Soils with deep sands and effervescent throughout profile
 - 2) All others

- a) Soils with a developed argillic horizon
- b) All others
 - i) Upland drainageway without defined, prominent channel ... R083DY012TX – Ramadero
 - ii) Low flood plain with loamy-textured soils and prominent channel ... R083DY013TX – Loamy Bottomland

B. Soils on other landforms

1. Visible salts within 24 inches

- i. Soils with sandy or sandy loam surface textures
- ii. All others
 - a. Soils classified as vertisols with high shrink-swell potential
 - b. Soils belonging to other taxonomic orders with low to moderate shrink-swell potential

2. All others

- i. Soils classified as vertisols with high shrink-swell potential
 - a. Dark-colored surface with value/chroma of 3/1 or darker and non-sodic
 - b. Lighter-colored surface and sodic
- ii. All others
 - a. Soil profile is effervescent to the surface ... R083DY019TX – Gray Sandy Loam
 - b. All others
 - 1) Soils with fine sandy loam, sandy loam, or loamy sand surface textures
 - a) Soils with sandy textures greater than 80 inches deep
 - b) All others
 - i) Depth to argillic greater than 14 inches
 - 1) Textural change of argillic greater than 30 inches
 - 2) Textural change of argillic within than 30 inches
 - ii) Depth to argillic less than 14 inches
 - 1) Subsoils slightly deeper, slightly lower in clay content, and more permeable ... R083DY023TX – Sandy Loam
 - 2) Subsoils slightly more shallow, higher in clay content, perch water more readily, and droughtier ... R083DY024TX – Tight Sandy Loam
 - 2) Soils with clay loam, sandy clay loam, or silty clay loam surface textures

- a) Soils in MLRAs 83B, 83C, or 83D ... R083DY025TX – Clay Loam
- b) Soils in MLRA 83A
 - i) Soils from center of Atascosa County east
 - ii) Soils from center of Atascosa County west