

# Major Land Resource Area 083D

## Lower Rio Grande Plain

Accessed: 05/10/2025

---

### 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