

# Major Land Resource Area 083B

## Western Rio Grande Plain

Accessed: 05/10/2025

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### Ecological site keys

#### MLRA 83B

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##### 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 gravels ... R083BY001TX – Igneous Hill
- 2 Less than 15 percent of soil surface covered by large gravels
  - i. Strongly cemented calcium carbonate less than 20 inches ... R083BY002TX – Shallow Ridge
  - ii. All others ... R083BY003TX – Gravelly Ridge

###### B. Soils without gravels in epipedon

- 1 Soils with sandy loam or loam surface texture ... R083BY004TX – Shallow Sandy Loam
- 2 All others ... R083BY005TX – Shallow

##### 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
  - ii. Soils with fluctuating water table levels and ponded after heavy rains
- 2 Soils in flood plain or drainageway
  - i. Visible salts less than 40 inches
  - ii. All others
    - a. Soils with fine surface textures (clay and silty clay) ... R083BY009TX – Clayey Bottomland
    - b. All others
      - 1) Soils with deep sands and effervescent throughout profile ... R083BY010TX – Vega
      - 2) All others
        - a) Soils with a developed argillic horizon ... R083BY011TX – Claypan Prairie
        - b) All others
          - i) Upland drainageway without defined, prominent channel ... R083BY012TX – Ramadero
          - ii) Low flood plain with loamy soils and prominent channel ... R083BY013TX – Loamy Bottomland

###### B. Soils on other landforms

- 1 Visible salts less than 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 ... R083BY016TX – Saline Clay Loam
- 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 ... R083BY017TX – Blackland
- b. Lighter-colored surface and sodic
- ii. All others
  - a. Soil profile is effervescent to the surface ... R083BY019TX – 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 less than 30 inches
        - ii) Depth to argillic less than 14 inches
          - 1) Subsoils slightly deeper, slightly lower in clay content, and more permeable ... R083BY023TX – Sandy Loam
          - 2) Subsoils slightly more shallow, higher in clay content, perch water more readily, and more droughty
    - 2) Soils with clay loam, sandy clay loam, or silty clay loam surface textures
      - a) Soils in MLRAs 83B, 83C, or 83D ... R083BY025TX – Clay Loam
      - b) Soils in MLRA 83A
        - i) Soils from center of Atascosa County east
        - ii) Soils from center of Atascosa County west