

# Major Land Resource Area 083C

## Central Rio Grande Plain

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### Ecological site keys

#### MLRA 83C

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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 pebbles
- 2 Less than 15 percent of soil surface covered by large pebbles
  - i. Strongly cemented calcium carbonate within 20 inches ... R083CY002TX – Shallow Ridge
  - ii. All others ... R083CY003TX – Gravelly Ridge

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

- 1 Soils with sandy loam or loam surface texture ... R083CY004TX – Shallow Sandy Loam
- 2 All others ... R083CY005TX – 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 ... R083CY007TX – 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)
  - 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 ...  
R083CY012TX – Ramadero
- ii) Low flood plain with loamy-textured soils and prominent  
channel ... R083CY013TX – 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 ... R083CY017TX – Blackland
  - b. Lighter-colored surface and sodic
- ii. All others
  - a. Soil profile is effervescent to the surface ... R083CY019TX – 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 deeper than 30 inches ...  
R083CY021TX – Sandy
          - 2) Textural change of argillic within 30 inches ...  
R083CY022TX – Loamy Sand
        - ii) Depth to argillic less than 14 inches
          - 1) Subsoils slightly deeper, slightly lower in clay content, and more permeable ... R083CY023TX – Sandy Loam
          - 2) Subsoils slightly more shallow, higher in clay content, perch water more readily, and droughtier ... R083CY024TX – 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 ... R083CY025TX – Clay Loam
- b) Soils in MLRA 83A
  - i) Soils from center of Atascosa County east
  - ii) Soils from center of Atascosa County west