

# Major Land Resource Area 083A

## Northern Rio Grande Plain

Accessed: 04/25/2024

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### Ecological site keys

#### MLRA 83A

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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 ... R083AY001TX – Igneous Hill

2 Less than 15 percent of soil surface covered by large pebbles

i. Strongly cemented calcium carbonate less than 20 inches ... R083AY002TX – Shallow Ridge

ii. All others ... R083AY003TX – Gravelly Ridge

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

1 Soils with sandy loam or loam surface texture ... R083AY004TX – Shallow Sandy Loam

2 All others ... R083AY005TX – 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 ... R083AY007TX – Lakebed

2 Soils in flood plain or drainageway

i. Visible salts less than 40 inches ... R083AY008TX – Salty Prairie

ii. All others

a. Soils with fine surface textures (clay and silty clay) ... R083AY009TX – Clayey Bottomland

b. All others

1) Soils with deep sands and effervescent throughout profile ... R083AY010TX – Vega

2) All others

a) Soils with a developed argillic horizon ... R083AY011TX – Claypan Prairie

b) All others

i) Upland drainageway without defined, prominent channel ... R083AY012TX – Loamy Draw

ii) Low flood plain with loamy soils and prominent channel ... R083AY013TX – 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 ... R083AY016TX – 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 ... R083AY017TX – Blackland
  - b. Lighter-colored surface and sodic
- ii. All others
  - a. Soil profile is effervescent to the surface ... R083AY019TX – 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 ... R083AY020TX – Sand Hills
      - b) All others
        - i) Depth to argillic greater than 14 inches
          - 1) Textural change of argillic greater than 30 inches ... R083AY021TX – Sandy
          - 2) Textural change of argillic less than than 30 inches ... R083AY022TX – Loamy Sand
        - ii) Depth to argillic less than 14 inches
          - 1) Subsoils slightly deeper, slightly lower in clay content, and more permeable ... R083AY023TX – Sandy Loam
          - 2) Subsoils slightly more shallow, more droughty, higher in clay content, and perch water more readily ... R083AY024TX – 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
      - b) Soils in MLRA 83A
        - i) Soils from center of Atascosa County east ... R083AY026TX – Eastern Clay Loam
        - ii) Soils from center of Atascosa County west ... R083AY027TX – Western Clay Loam