

Major Land Resource Area 083B

Western Rio Grande Plain

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Ecological site keys

MLRA 83B

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