Major Land Resource Area 083C
Central Rio Grande Plain

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Ecological site keys

MLRA 83C

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 classifed 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 classifed 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