

# Major Land Resource Area 077C

## Southern High Plains, Southern Part

Accessed: 12/19/2025

---

### Ecological site keys

#### MLRA 77C ES Key

---

- I. Site that receives significant additional moisture from runoff of adjacent slopes or intermittent/perennial streams or a water table
  - A. Site moderately to strongly saline (>8mmhos/cm) within 20" (50cm) and dominated by salt tolerant species ... R077CY689TX – Wet Saline 16-21" PZ
  - B. Soils without strong saline soil
    - 1 loamy soil texture (18-35% clay), along stream flood plains ... R077CY023TX – Draw 16-21" PZ
    - 2 clayey soil texture (>35% clay), in closed basin depressions ... R077CY027TX – Playa 16-21" PZ
- II. Site does NOT receive additional moisture from runoff
  - A. Soils are very shallow to shallow (8-20"(20-50cm))
    - 1 Soils are very shallow (<10"(25cm) to root restricting layer ... R077CY037TX – Very Shallow 16-21" PZ
    - 2 Soil depth shallow (10-20" (25-50cm)) with a sandy soil texture ... R077CY056NM – Sandy Plains
  - B. Soil depth moderately deep to very deep (>20" (50cm)) without root restricting layer that inhibits the productivity potential
    - 1 Soils affected by chemistry
      - i. Soils highly calcareous (>15% CCE) violent effervescence. Soils are skeletal (>35% by volume) in the subsoil, below 20"(50cm) ... R077CY028TX – Limy Upland 16-21" PZ
      - ii. Soils highly calcareous (>15% CCE) violent effervescence. Soils are NOT skeletal (>35% by volume) in the subsoil, below 20"(50cm) ... R077CY026TX – High Lime 16-21" PZ
    - 2 Soils NOT affected by chemistry
      - i. Loamy Fine Sand and fine Sand Surface, slopes 5 percent or less, uplands and shallow swales ... R077CY035TX – Sandy 16-21" PZ

- ii. Loam and clay loam Surface, slopes 0 to 5 percent or less, moderately alkaline, Deep to Very Deep, nearly level to moderately sloping upland plateau. ... R077CY022TX – Deep Hardland 16-21" PZ
- iii. Fine Sand and Loamy Fine Sand Surface, slopes 0 to 5 percent or less, Duned ridges, little structure ... R077CY034TX – Sand Hills 16-21" PZ
- iv. Fine Sand and Loamy Fine Sand Surface, slopes 2 percent or less, nearly level to gently undulating plains ... R077CY052NM – Loamy Sand
- v. Fine Sandy Loam surface, slopes 5 percent or less, uplands and in shallow playas or depressions and swales ... R077CY036TX – Sandy Loam 16-21" PZ