

# Major Land Resource Area 042B

## Southern Rio Grande Rift

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### Ecological site group keys

#### MLRA 42.2 Ecological Site Group Key

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- I. Flooded (low-lying landscape position, evidence of water flow and/or high production, narrow inset fans, bottomlands, river flood plains or meadows; Flooded soils group)
  - A. In a river floodplain ... ESG10 – Riparian
  - B. Not in a river floodplain
    - 1 Level lake plains occupying lowest part of closed depressions in which flood waters persist long enough to prevent perennial vegetation in most areas ... ESG9 – Playas and lakebeds
    - 2 Swales and depressions within upland landforms or at the margins of playas featuring highly productive vegetation ... ESG8 – Bottomlands
- II. Not flooded (hills, convex portions of piedmont slopes, broad basin floors)
  - A. Exposed bedrock absent and few if any cobbles and stones
    - 1 Soil surface texture loamy sand to medium sandy loam, subsoil non gravelly, gypsum absent
      - i. Soil is shallow (< 50 cm) or has a calcic, cambic, or argillic horizon within 1 m, dunes may occur but are separated by areas of finer soil texture ... ESG1 – Sandy
      - ii. Soil is not shallow (≥ 50 cm) and does not have a clear pedogenic horizon, continuous undulating surface or dunes ... ESG2 – Deep sand
    - 2 Soil surface textures are fine sandy loam to clay loam, subsoil non gravelly, gypsum may or may not be present
      - i. Subsoil moderately to strongly saline, often with visible salt accumulation or crusts ... ESG4 – Saline
      - ii. Subsoil not moderately to strongly saline
        - a. Subsoil has a gypsic horizon and/or gypsiferous materials evident at the soil surface ... ESG7 – Gypsic
        - b. Subsoil lacks a gypsic horizon and gypsum not evident at the surface ... ESG3 – Loamy to clayey
    - 3 Soil surface gravelly, soil profile gravelly to skeletal ... ESG5 – Gravelly
  - B. Exposed bedrock present or surface cobbles and stones common
    - 1 Rock at lithic contact is basalt, may be a carbonate layer on top of it ... ESG11 – Malpais
    - 2 Rock at lithic contact is not basalt ... ESG6 – Bedrock and colluvium