

# Major Land Resource Area 056A

## Glacial Lake Agassiz, Red River Valley

Accessed: 12/16/2025

---

### Ecological site keys

#### MLRA 56A Key

---

- I. Sites have indicators of saturation within a depth of 42 inches during the growing season. (mucky surface, observed water table, redoximorphic depletions, redoximorphic concentrations)
  - A. Site on lowland with EC>8 and/or visible salts and/or salt tolerant vegetation present. Soil has strong effervescence within 16 inches of the soil surface ... R056AY089ND – Saline Lowland
  - B. Site has strong effervescence within 16 inches of soil surface ... R056AY087ND – Limy Subirrigated
  - C. Site is typically located in depressions, early growing season ponding, and is poorly drained ... R056AY102ND – Wet Meadow
  - D. Site is located on deep depressions, is usually ponded into mid-summer, has high organic matter content and is very poorly drained ... R056AY101ND – Shallow Marsh
  - E. Soil surface texture is fine sandy loam to loamy sand ... R056AY096ND – Subirrigated Sands
  - F. Soil has redoximorphic features visible 24-42 inches from the soil surface and is somewhat poorly drained ... R056AY095ND – Subirrigated
- II. Site is located on uplands and has root-restrictive layer within 20 inches from soil surface
  - A. Soil with >15% coarse sand or gravel at depths <10 inches ... R056AY100ND – Very Shallow
  - B. Soil depth is 10-20 inches to bedrock
    - 1 Soil substratum contains up to 10-60% gravel and/or 25-75% sand ... R056AY093ND – Shallow Gravel
    - 2 Not as above - Site not written for this MLRA
- III. Site is located on uplands and has a sand content of >45% in the soil surface
  - A. Site is located on dunes with >15% slope ... R056AY104ND – Choppy Sands

- D. Fine sandy loam and sandy loam soil surface textures ... R056AY091ND – Sandy
- C. Loamy fine sand to fine sand ... R056AY090ND – Sands
- IV. Site is located on uplands and has a clay content >35% in the soil surface
  - A. Silty clay to clay soil surface texture and no root restrictive layer ... R056AY084ND – Clayey
  - B. Soil has a dense, root-restrictive, claypan layer <6” from the surface ... R056AY097ND – Thin Claypan
  - C. Soil has dense, root-restrictive, claypan layer at 6-14” from the surface and a clay loam to clay soil surface texture ... R056AY085ND – Claypan
- V. All other sites
  - A. Site is in a floodplain or swale and fine sand loam or loam soil surface texture ... R056AY088ND – Loamy Overflow
  - B. Site located on shoulder slopes, convex rises, and summits. Strong to violent effervescence immediately below the surface layer ... R056AY099ND – Thin Loamy
  - C. All other sites ... R056AY094ND – Loamy