

# Major Land Resource Area 067A

## Central High Plains, Northern Part

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### Ecological site keys

#### MLRA 67A Abiotic Key

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- I. Sites occur in a lower landscape position that receives additional moisture from runoff, intermittent or perennial streams, or from a water table.
- A. Sites have a high water table (0-36") present for all or a portion of the growing season.
    - 1 Water table at or near surface (0-18"). Site is poorly drained. ... R067AY178WY – Wetland (WL)
    - 2 Water table within rooting depth (6-36") of herbaceous species during some or most of the growing season.
      - i. Soils are alkaline and/or saline. ... R067AY142WY – Saline Subirrigated (SS)
      - ii. Soils are not alkaline or saline. ... R067AY174WY – Subirrigated (Sb)
  - B. Site occurs adjacent to intermittent or perennial streams. Water table within rooting depth of woody plants, typically > 7'; if shallower, not within the rooting depth of herbaceous plants.
    - 1 Soils are either alkaline and/or saline. ... R067AY138WY – Saline Lowland (SL)
    - 2 Soils are not alkaline or saline.
      - i. Soil surface textures are loam, silt loam or occasionally very fine sandy loam. ... R067AY124WY – Loamy Lowland (LyL)
      - ii. Soil surface textures are loamy sand, loamy fine sand, sandy loam, fine sandy loam, or sand. ... R067AY152WY – Sandy Lowland (SyL)
  - C. Site receives periodic run-off from adjacent slopes or intermittent streams following precipitation events, no water table.
    - 1 Site is in a closed depression and is prone to ponding. The subsurface texture is silty clay, silty clay loam, clay, or clay loam. ... R067AY106WY – Closed Depression (Cd)
    - 2 Site is not in a closed depression. Surface textures are loam or silt loam, and subsoil textures are loam, silt loam or clay loam. ... R067AY126WY – Loamy Overflow (LyO)
- II. Upland sites that do not receive additional moisture from runoff, streams, or water table.
- A. Soil depth is 20" or less to a root restrictive layer.
    - 1 Soils are very shallow (<10") to a root restrictive layer of sandstone or siltstone and may include areas of exposed bedrock. ... R067AY176WY – Very Shallow (VS)
    - 2 Soils are shallow (10-20") to a root restrictive layer of sandstone or siltstone. ... R067AY162WY – Shallow (Sw)
  - B. Soil depth is moderately deep to very deep (>20").
    - 1 Soils are alkaline and/or saline. ... R067AY144WY – Saline Upland (SU)
    - 2 Soils are not alkaline or saline.
      - i. Soils contain a high volume of rock fragments on the surface and throughout the soil profile. ... R067AY112WY – Gravelly (Gr)
      - ii. Soils do not contain high volume of rock fragments on the surface.
        - a. Soil textures are clay, clay loam, silty clay, or silty clay loam, but may include loam on the surface. Soil cracking is common during dry months. ... R067AY104WY – Clayey (Cy)

b. Soil textures range from sand to sandy loam.

1) Soil surface textures are fine sandy loam, very fine sandy loam or loamy very fine sand; sites are nearly level to slightly sloping (<6%). ... R067AY150WY – Sandy (Sy)

2) Soil surface textures are fine sand, loamy fine sand, loamy sand, or sand.

a) Rolling dunes or hills with slopes of 6-24%. ... R067AY146WY – Sands (Sa)

b) Steep dunes with slopes exceeding 24%; blowouts may be present. ... R067AY102WY – Choppy Sands (CS)

c. Soil textures are loam, very fine sandy loam, fine sandy loam, or silt loam.

1) Soils are calcareous at or near the surface (<6”) and effervesce when acid is applied to the soil. ... R067AY120WY – Limy Upland (LiU)

2) Soils are not calcareous near the surface. ... R067AY122WY – Loamy (Ly)