

Major Land Resource Area 058C

Northern Rolling High Plains, Northeastern Part

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Ecological site keys

MLRA 58C Ecological Site Key

I. Exposed cliff faces and/or escarpments

- A. >80% bare ground and slope >60% ... R058CY103ND – Badland

II. Woodland Draws

- A. Draws with flat bottoms ... R058CY102ND – Flat-Bottom Wooded Draw
- B. Draws with steep sides ... R058CY101ND – Steep-Sided Wooded Draw

III. Alluvial Soils located on floodplains and stream terraces

A. Soils that have a seasonal or perennial high water table (<3 feet from surface)

- i. Soils with a water table <3 feet ... R058CY092ND – Wet Meadow

B. Soils that do not have a seasonal or perennial high water table (>6 feet from surface)

- i. Soils with high concentration of salts ... R058CY090ND – Saline Lowland
- ii. Soils with >52% sand in the surface ... R058CY089ND – Sandy Terrace
- iii. Surface texture is >40% clay ... R058CY096ND – Clayey Terrace
- iv. Site occurs on a terrace landform ... R058CY091ND – Loamy Terrace
- v. All other soils ... R058CY074ND – Loamy Overflow

IV. Sandy Soils (generally soils with >52% sand)

- A. Soils <20” to root restrictive layer ... R058CY088ND – Shallow Sandy
- B. Subsoil with claypan characteristics, extremely hard ... R058CY085ND – Sandy Claypan
- C. Effervescence >3” from the surface ... R058CY095ND – Limy Sands
- D. Soils with <70% but >50% sand in the surface ... R058CY077ND – Sandy

V. Shallow soils (<20 inches), thin surface, or >20% channers throughout profile

- A. Soils with loam surface ... R058CY086ND – Shallow Loamy
- B. Soils with rock, channers >20% throughout profile (channers are pocalanite (scoria)) ... R058CY083ND – Very Shallow
- C. Surface horizon <3 inches with loamy fine sand surface ... R058CY082ND – Choppy Sands

VI. Clay soils >40% clay in profile

- A. Silty clay to clay texture in the surface (>27% and <35% clay) ... R058CY072ND – Clayey

B. A dense compact layer <6 inches from the surface ... R058CY081ND – Thin Claypan

C. A dense compact layer in the subsoil ... R058CY073ND – Claypan

VII. Badlands (fans and swales)

A. Alluvium from adjacent steep eroding badland areas ... R058CY070ND – Badland Fan

VIII. Plains and/or Uplands (smooth and level gently undulating land)

A. Closed depressions on plains ... R058CY074ND – Loamy Overflow

B. Soils are effervescence in the surface layer ... R058CY079ND – Limy Residual

C. Upland or plains sites with no effervescence <8” to surface ... R058CY080ND – Loamy