

Major Land Resource Area 079X Great Bend Sand Plains

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Ecological site keys

MLRA 79 Ecological Site Key

I. Floodplains, Interdunes, and slight depressional areas

A. Soils that have a seasonal or perennial high water table <2 feet from surface

- i. Poorly drained soils with a water table <2' ... R079XY133KS – Wet Subirrigated

B. Soils that have a seasonal or perennial high water table >2 feet and <6 feet from surface

- i. Soils with a high concentration of salts SAR >13 at 7" from soil surface ... R079XY120KS – Saline Subirrigated
- ii. All other somewhat poorly drained soils with a water table <6 feet ... R079XY132KS – Subirrigated

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

- i. Soils with >70% sand in the surface
- ii. All other well drained soils on floodplains ... R079XY113KS – Loamy Floodplain

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

A. Soils with >70% sand throughout the profile, >15% slope, short, steep, hummocky landform, no lamellae in the profile ... R079XY103KS – Choppy Sands

B. Soils with >70% sand in the surface and clay increase from lamellae at 8" from soil surface ... R079XY121KS – Sand Plains

C. Soils with >52% sand in the surface, a clay increase, and Loamy subsurface texture ... R079XY122KS – Sandy Loam

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

A. Shallow soils <20" to Permian red shale ... R079XY180KS – Shallow Red Plains

B. Soils with visible salts >8" and SAR>13 at >4" ... R079XY105KS – Sodic Plains

C. Soils >35% clay >10" from the surface ... R079XY107KS – Clayey Plains

D. Soils calcareous to the surface ... R079XY112KS – Limy Plains

E. Moderately deep to deep, well drained upland soils ... R079XY115KS – Loamy Plains

SAR=Sodium Absorption Ratio

Lamellae (lamella, if singular) are illuvial horizons less than 3 inches (7.5cm) thick and has more silicate clay within a sandier eluvial horizon.