

Major Land Resource Area 080A

Central Rolling Red Prairies

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Ecological site keys

MLRA 80A Dichotomous Key

I. Run on hydrology (floodplains, depressions)

A. Closed depressions or interdunal depressions on sand sheets

1 Loam textures with redox within 30 inches ... R080AY025OK – Depressional Upland

2 Sand textures with redox within 50 inches ... R080AY094OK – Wet Sandy Upland

B. Floodplain or floodplain step

1 Ponded with redox within 10 inches ... R080AY090OK – Ponded Bottomland

2 Not ponded

i. Natric or salts are present

a. Sodic with prismatic structure in the subsurface horizons with red colors (7YR) and a SAR greater than 13. ... R080AY001OK – Alkali Bottomland

b. Saline with a Columnar structure in the subsurface horizons with a brown surface colors (10YR) and an EC greater than 4 mmohs/cm. ... R080AY068OK – Sandy Bottomland

ii. No salts present

a. Sandy surface (greater than 4 inches (10 cm)) ... R080AY068OK – Sandy Bottomland

b. Loam or clay surface (greater than 4 inches (10 cm))

1) >35% clay throughout the upper soil profile (20 inches (50 cm)) ... R080AY045OK – Clay Bottomland

2) >18% clay but <35% clay throughout the upper soil profile (20 inches (50 cm)) ... R080AY050OK – Loamy Bottomland

II. Run off or neutral hydrology (uplands, terrace)

A. Less than 20 inches (50 cm) to a restrictive layer

1 Clay or Clay loam over red shale (>35% clay) ... R080AY080OK – Shallow Clay Upland

2 Loam or Sandy Loam over sandstone (clay >18% but <35%) ... R080AY083OK – Shallow Upland

B. Greater than 20 inches (50 cm) to a restrictive layer.

1 Surface salts and crusting visible. ... R080AY091OK – Slickspot

2 No surface salts and crusting visible.

i. Loam surface (loam, silty loam, clay loam, fine sandy loam)

a. Abrupt texture change (increase in clay) within 30 inches of surface.

1) Mean annual air temperature >60 degrees ... R080AY011OK – Claypan Upland (South)

2) Mean annual air temperature <60 degrees ... R080AY010OK – Claypan Upland (North)

b. No abrupt texture change.

1) Sandy loam or sandy clay loam subsoils ... R080AY073OK – Sandy Loam Upland

2) Loam or clay loam subsoils ... R080AY056OK – Loamy Upland

ii. Sandy surface (sand, fine sand, loamy fine sand).

a. Dunes or hummocks with no argillic horizon (sand over sand) (clay <10%, sand >70%) ...

R080AY022OK – Dune

b. Low dunes or hummocks with argillic (Lamellae). ... R080AY014OK – Deep Sand