

Major Land Resource Area 078C

Central Rolling Red Plains, Eastern Part

Accessed: 05/20/2025

Ecological site keys

MLRA 78C

I. Upland

A. Clay sites

1. Sodium & surface crusting ... R078CY091OK – Slickspot
2. No crusting
 - i. Depth to bedrock <20 inches
 - a. Correlated to the Knoco soil series
 - 1) Slope >20% ... R078CY006OK – Clayey Breaks
 - 2) Slope <20% ... R078CY114TX – Shallow Red Clay 23-31" PZ
 - b. Not correlated to the Knoco soil series ... R078CY067OK – Red Shale
 - ii. Depth to bedrock >20 inches
 - a. Depth to bedrock <40 inches
 - 1) North of MAAT 60 ... R078CY065OK – Red Clay (North)
 - 2) South of MAAT 60 ... R078CY112TX – Red Clay (South) 23-30" PZ
 - b. Depth to bedrock >40 inches
 - 1) Ponded ... R078CY102TX – Lakebed 23-30" PZ
 - 2) Not ponded
 - a) Smectitic minerology ... R078CY095TX – Clay Flat 23-30" PZ
 - b) Other minerology ... R078CY096TX – Clay Loam 23-30" PZ

B. Sand sites

1. Ponded or redox within 30 inches of surface ... R078CY025OK – Depressional Upland
2. No ponding or redox within 30 inches of surface
 - i. Fine sand surface texture
 - a. Argillic horizon ... R078CY017OK – Deep Sand Shrubland
 - b. No argillic horizon ... R078CY107TX – Sand Hills 23-31" PZ

ii. Loamy fine sand surface texture

a. Argillic horizon

1) E horizon ... R078CY098TX – Deep Sand 23-30" PZ

2) No E horizon ... R078CY105TX – Loamy Sand 23-31" PZ

b. No argillic horizon ... R078CY014OK – Rolling Sands

C. Loam sites

1. Slope <20%

i. Gypsum surface ... R078CY038OK – Gyp

ii. No gypsum surface

a. Depth to bedrock <20 inches ... R078CY083OK – Shallow Upland

b. Depth to bedrock >20 inches

1) FSL surface ... R078CY110TX – Sandy Loam 23-31" PZ

2) Other surface texture ... R078CY056OK – Loamy Upland

2. Slope >20% ... R078CY005OK – Loamy Breaks

II. Bottomland

A. Clay sites

1. Salinity present ... R078CY046OK – Saline Bottomland

2. Salinity absent ... R078CY094TX – Clayey Bottomland 23-30" PZ

B. Sand sites

1. Free water w/in 60 inches of surface

i. Redox features w/in 12 inches of surface ... R078CY090OK – Ponded Bottomland

ii. Redox features found only below 12 inches of surface ... R078CY095OK – Subirrigated Bottomland

2. No free water w/in 60 inches of surface ... R078CY068OK – Sandy Bottomland

C. Loam sites

1. Head of drainageways, rarely flooded ... R078CY099TX – Draw 23-30" PZ

2. Commonly flooded bottomlands ... R078CY103TX – Loamy Bottomland 23-31" PZ