

Major Land Resource Area 078C

Central Rolling Red Plains, Eastern Part

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Ecological site keys

MLRA 78C

I. Upland

A. Clay sites

1. Sodium & surface crusting ... R078CY0910K – Slickspot

2. No crusting

i. Depth to bedrock <20 inches

a. Correlated to the Knoco soil series

1) Slope >20% ... R078CY0060K – Clayey Breaks

2) Slope <20% ... R078CY114TX – Shallow Red Clay 23-31" PZ

b. Not correlated to the Knoco soil series ... R078CY0670K – Red Shale

ii. Depth to bedrock >20 inches

a. Depth to bedrock <40 inches

1) North of MAAT 60 ... R078CY0650K – 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 mineralogy ... R078CY095TX – Clay Flat 23-30" PZ

b) Other mineralogy ... R078CY096TX – Clay Loam 23-30" PZ

B. Sand sites

1. Ponded or redox within 30 inches of surface ... R078CY0250K – Depressional Upland

2. No ponding or redox within 30 inches of surface

i. Fine sand surface texture

a. Argillic horizon ... R078CY0170K – 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 ... R078CY0140K – Rolling Sands

C. Loam sites

1. Slope <20%

i. Gypsum surface ... R078CY0380K – Gyp

ii. No gypsum surface

a. Depth to bedrock <20 inches ... R078CY0830K – Shallow Upland

b. Depth to bedrock >20 inches

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

2) Other surface texture ... R078CY0560K – Loamy Upland

2. Slope >20% ... R078CY0050K – Loamy Breaks

II. Bottomland

A. Clay sites

1. Salinity present ... R078CY0460K – 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 ... R078CY0900K – Ponded Bottomland

ii. Redox features found only below 12 inches of surface ... R078CY0950K – Subirrigated Bottomland

2. No free water w/in 60 inches of surface ... R078CY0680K – 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