

Major Land Resource Area 081C Edwards Plateau, Eastern Part

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Ecological site keys

MLRA 81C Site Key

I. Site in a lowland position (bottom) that receives significant additional moisture from runoff of adjacent slopes or intermittent/perennial streams or a water table

A. A. Soils are greater than 35% clay in the mineral soil. Site is very deep with moderately well drained, very slow permeable soils on flood plains of streams ... R081CY699TX – Clayey Bottomland 29-35" PZ

B. Soils are less than 35% clay in the mineral soil. Site is very deep with well drained, moderate to rapid permeability soils on flood plains ... R081CY561TX – Loamy Bottomland 29-35 PZ

II. Site not in a lowland position, and does not receive significant additional moisture.

A. Soil depth very shallow (<10" (25cm)), shallow (10-20" (25-50cm)) skeletal (>35% coarse fragments by volume in top 20" (50cm)) soils on south and west aspects and/or with a root restricting layer which react like shallow soils

1 Soils shallow (10-20" (25-50cm)), but may include moderately deep to deep (>20" (>50cm)) skeletal soils, less than 20% slopes

i. Site with a highly calcareous subsoil (<10" (25cm)), often gravelly or skeletal subsoil OR underlain by hard calcareous materials and slopes less than 20%

a. Shallow loam to clay loam soils (10-20"(25-50cm)) over cemented limestone with interbedded limestone bedrock, very calcic (greater than 40% CCE), violent effervesces ... R081CY355TX – Adobe 29-35 PZ

b. Shallow silty clay to clay soils (10-20"(25-50cm)), often gravelly to stony with slopes less than 20%, underlain by hard calcareous materials ... R081CY574TX – Shallow 29-35 PZ

ii. Site without highly calcareous subsoil or bedrock, OR if lime horizon present, accompanied by high volume of coarse fragments at soil surface, slopes less than 10%

a. Site occurs on ridges with coarse fragments up to 10" diameter covering 40-75% of surface and making up 40-75% volume in top 20" (50cm), soils are well drained clays and clay loams ... R081CY360TX – Low Stony Hill 29-35 PZ

2 Soils shallow (10-20" (25-50cm)), but may include moderately deep to deep (>20" (>50cm)) skeletal soils, greater than 20% slopes

i. Site with a highly calcareous subsoil (<10" (25cm)), often gravelly or skeletal subsoil OR underlain by hard calcareous materials and slopes greater than 20%

a. Shallow loam to clay loam soils (10-20"(25-50cm)) over cemented limestone with interbedded limestone bedrock, very calcic (greater than 40% CCE), violent effervesces ... R081CY362TX – Steep Adobe 29-35 PZ

b. Shallow silty clay to clay soils (10-20"(25-50cm)), often gravelly to stony with slopes less than 20%, underlain by hard calcareous materials ... R081CY363TX – Steep Rocky 29-35 PZ

B. Soil depth moderately deep to deep (>20" (50cm)) without root restricting layer that inhibits the productivity potential

1 Soils highly calcareous (>15% CCE within top 20" (50cm))

i. Sites with a high volume of coarse fragments in top 20" (>35% by volume). Site occurs along terrace breaks, steep slopes, or terraces with coarse fragments up to 10" diameter covering 50-75% of surface and making up 40-50% volume in top 20" (50cm).

**These upland sites occur on gravelly clay loam soils over limestone on hills ... R081CY359TX – Gravelly
Redland 29-35 PZ**

**ii. Sites without high volume of coarse fragments. Moderately deep to very deep clay loam to clay soils on stream terraces ...
R081CY357TX – Clay Loam 29-35 PZ**

2 Sites are not affected by soil chemistry

**i. Soils are moderately deep (20-40" (50-100cm)). Soils are Loam to clay loam texture, non-calcareous on hillslopes and plateaus
... R081CY361TX – Redland 29-35 PZ**

ii. Soils are deep to very deep (>40" (100cm))

a. Soils are clay texture, non-calcareous with high shrink-swell and large cracks when soils are dry ...

R081CY356TX – Blackland 29-35 PZ

**b. Soils are Loam to clay loam texture, non-calcareous on hillslopes and plateaus ... R081CY358TX – Deep
Redland 29-35 PZ**