USDA icon **Natural Resources Conservation Service**

Major Land Resource Area 085A
Grand Prairie

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Ecological site keys

Lampasas Cut Plain and Forth Worth Prairie

I. Lampasas Cut Plain

A. Landform is a drainageway, stream terrace, flood plain or flood-plain step

1 Noncalcareous or sandy surface texture

2 Landform is a flood plain or flood-plain step

i. Loamy surface texture ... R085AY181TX – Loamy Bottomland 30-38" PZ

ii. Clayey surface texture ... R085AY178TX – Clayey Bottomland 30-38" PZ

3 Landform is a drainageway or stream terrace

i. Slope shape is convex or slope gradient is greater than 3 percent ... R085AY379TX – Loamy Slope 30-38

ii. Slope shape is linear to concave or slope gradient is less than 3 percent

a. Loamy surface texture ... R085AY479TX – Loamy Swale 30-38

b. Clayey surface texture

1) Greater than 5 percent visible secondary carbonates within 40" ... R085AY279TX – Clayey Swale 30-38

2) Less than 5 percent visible secondary carbonates within 40" ... R085AY177TX – Blackland 30-38" PZ

B. Landform is a ridge or hillslope (upland)

1 Parent material is Edwards Limestone

i. Slope gradient is greater than 12 percent ... R085AY187TX – Steep Rocky 30-38" PZ

ii. Matrix color of subsoil within 20" has a red hue

a. Less than 20" to indurated limestone bedrock or a petrocalcic horizon ... R085AY183TX – Redland 30-38" PZ

b. Greater than 20" to indurated limestone bedrock or a petrocalcic horizon ... R085AY180TX – Deep Redland 30-38" PZ

iii. Matrix color of subsoil within 20" has a brown to black hue

a. Greater than 10 percent surface cover of stones and cobbles ... R085AY182TX – Low Stony Hill 30-38" PZ

b. Less than 10 percent surface cover of stones and cobbles

1) **Less than 20” to indurated limestone bedrockor a petrocalcic horizon ...** R085AY185TX – Shallow 30-38" PZ

2) **Greater than 20” to indurated limestone bedrock or a petrocalcic horizon ...** R085AY379TX – Loamy Slope 30-38

2 Parent material is Comanche Peak Limestone

i. **Slope gradient is greater than 12 percent ...** R085AY186TX – Steep Adobe 30-38" PZ

ii. **Slope gradient is less than 12 percent ...** R085AY176TX – Adobe 30-38" PZ

3 Walnut Prairie (Parent material is Walnut formation)

i. **Greater than 20” to limestone bedrock and/or petrocalcichorizon**

a. **Greater than 3 percent surface cover of stones and cobbles ...** R085AY188TX – Stony Clay Loam 30-38" PZ

b. **Less than 3 percent surface cover of stones and cobbles**

1) **Loamy surface texture ...** R085AY379TX – Loamy Slope 30-38

2) **Clayey surface texture**

a) **Greater than 5 percent visible secondary carbonates within 40” ...** R085AY279TX – Clayey Swale 30-38

b) **Less than 5 percent visible secondary carbonates within 40” ...** R085AY177TX – Blackland 30-38" PZ

ii. **Less than 20” to limestone bedrock and/or petrocalcic horizon**

a. **Less than 10” to massive oyster bed limestone and petrocalcic horizon is not present ...** R085AY189TX – Very Shallow 30-38" PZ

b. **Greater than 10” to limestone or any depth to petrocalcic horizon**

1) **Ochric epipedon and slope shape is convex ...** R085AY176TX – Adobe 30-38" PZ

2) **Mollic epipedon**

a) **Clayey surface texture ...** R085AY563TX – Shallow Clay 30-38" PZ

b) **Loamy surface texture ...** R085AY185TX – Shallow 30-38" PZ

4 Glen Rose Prairie (Parent material is Glen Rose formation)

i. **Slope gradient is less than 12 percent**

a. **Greater than 20” to limestone bedrock or petrocalcic horizon ...** R085AY379TX – Loamy Slope 30-38

b. **Less than 20” to limestone bedrock or petrocalcic horizon**

1) **Ochric epipedon and slope shape is convex ...** R085AY176TX – Adobe 30-38" PZ

2) **Mollic epipedon**

a) **Clayey surface texture ...** R085AY563TX – Shallow Clay 30-38" PZ

b) **Loamy surface texture ...** R085AY185TX – Shallow 30-38" PZ

5 Travis Peak Prairie (Parent material is Travis Peak formation)

i. **Surface horizon is calcareous ...** R085AY565TX – Pink Caliche 30-38" PZ

ii. **Surface horizon is noncalcareous**

a. **Gravel content of surface horizon is greater than 15 percent**

b. **Gravel content of surface horizon is less than 15 percent**

II. Fort Worth Prairie

A. Landform is a drainageway, stream terrace, flood plain or flood-plain step

1 Sandy surface texture or noncalcareous with loamy surface texture

i. Sandy clay loam, sandy loam, or sandy surface texture

ii. Clay loam, loam, or silty surface texture

a. **Strongly effervescent within 40" ...** R085AY379TX – Loamy Slope 30-38

b. **Not strongly effervescent within 40" ...** R085AY003TX – Claypan 35-40 PZ

2 Loamy or clayey surface texture

i. Landform is a flood plain or flood-plain step

a. **Loamy surface texture ...** R085AY181TX – Loamy Bottomland 30-38" PZ

b. **Clayey surface texture ...** R085AY178TX – Clayey Bottomland 30-38" PZ

ii. Landform is a drainageway or stream terrace

a. **Slope shape is convex or slope gradient is greater than 3 percent ...** R085AY379TX – Loamy Slope 30-38

b. **Slope shape is linear to concave or slope gradient is less than 3 percent**

1) **Loamy surface texture ...** R085AY479TX – Loamy Swale 30-38

2) **Clayey surface texture**

a) **Greater than 5 percent visible secondary carbonates within 40" ...** R085AY279TX – Clayey Swale 30-38

b) **Less than 5 percent visible secondary carbonates within 40" ...** R085AY177TX – Blackland 30-38" PZ

B. Landform is a ridge or hillslope (upland)

1 Surface horizon is noncalcareous or matrix color of subsoil within 20" has a red hue

i. Less than 20" to limestone bedrock ... R085AY183TX – Redland 30-38" PZ

ii. Greater than 20" to limestone bedrock ... R085AY180TX – Deep Redland 30-38" PZ

2 Surface horizon is calcareous and matrix color of subsoil within 20" does not have a red hue

i. Ochric epipedon and slope shape is convex ... R085AY176TX – Adobe 30-38" PZ

ii. Mollic epipedon

a. **Less than 20" to limestone bedrock**

1) **Loamy surface texture ...** R085AY185TX – Shallow 30-38" PZ

2) **Clayey surface texture ...** R085AY563TX – Shallow Clay 30-38" PZ

b. **Greater than 20" to limestone bedrock**

1) **Loamy surface texture ...** R085AY379TX – Loamy Slope 30-38

2) **Clayey surface texture**

a) **Calcic horizon within 40" ...** R085AY179TX – Clayey Slope 30-38