

# Major Land Resource Area 085A

## Grand Prairie

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### Ecological site keys

#### Lampasas Cut Plain and Forth Worth Prairie

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##### 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 bedrock or 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

b) Calcic horizon greater than 40" if present ... R085AY177TX – Blackland 30-38" PZ