

Major Land Resource Area 115X

Central Mississippi Valley Wooded Slopes

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Ecological site keys

115XA

I. Uplands

A. Slopes <18%

a. No depth restrictions

1 Moderately well drained and well drained ... F115XA001IL – Silty Upland

2 Somewhat Poorly drained to Poorly drained ... F115XA003IL – Wet Silty Upland

b. Depth restrictions

1 Fragipan ... F115XA004IL – Fragic Upland

B. Slopes >18%

a. No depth restrictions (very deep) ... F115XA002IL – Silty Backslope

b. Depth restrictions (deep to moderately deep) ... F115XA005IL – Bedrock Backslope

II. Dunes

A. Somewhat poorly drained to poorly drained ... R115XA101IL – Wet Sand Dunes

B. Well Drained ... R115XA103IL – Sand Dunes

C. Somewhat excessively drained to excessively drained ... R115XA102IL – Dry Sand Dunes

III. Terraces/Lakeplains

A. Mineral

a. Somewhat poorly drained to very poorly drained

1 Clayey ... F115XA007IL – Wet Clayey Terrace

2 Sandy ... R115XA105IL – Wet Sandy Terrace

3 Loamy ... F115XA011IL – Wet Loamy Terrace

b. Moderately well drained to well drained

1 No fragipan

a. Clayey ... F115XA006IL – Clayey Terrace

b. Sandy ... R115XA104IL – Sandy Terrace

c. Loamy

1 Slope <10% ... F115XA008IL – Loamy Terrace

2 Slope >10% ... F115XA010IL – Loamy Backslope Terrace

2 Fragipan -not described at this time

B. Organic

a. Very poorly drained ... R115XA106IL – Marsh

IV. Floodplains

A. Textural family - fine

a. Moderately well drained ... F115XA012IL – Clayey Floodplain

b. Poorly drained to very poorly drained ... F115XA018IL – Wet Clayey Floodplain

B. Textural family - course silty to fine silty

- a. Somewhat poorly drained ... F115XA014IL – Wet Silty Floodplain
- b. Moderately well drained to well drained ... F115XA013IL – Silty Floodplain
- c. Very poorly drained ... F115XA016IL – Wet Muck
- C. Textural family -course Loamy ... F115XA015IL – Loamy Floodplain
- D. Textural family - sandy ... F115XA017IL – Sandy Floodplain

115XB

I. Upland Summits, Shoulders or Backslopes

A. Bedrock < 20"

1 Steep slope dominant (upper slope range to 70%)

- i. North, East aspects ... R115XB018MO – Limestone/Dolomite Protected Cliff
- ii. South, West aspects ... R115XB019MO – Limestone/Dolomite Exposed Cliff

2 Steep slope minor

- i. Limestone/Dolomite residuum ... R115XB009MO – Shallow Limestone/Dolomite Upland Glade/Woodland
- ii. Sandstone residuum ... R115XB052MO – Shallow Sandstone Backslope Glade/Woodland

B. Bedrock > 20"

1 <15% slope

i. Loess >40"

- a. HAHT (Human altered/human transported) material ... F115XB061MO – Anthropic Deep Loess Upland
- b. No HAHT (Human altered/human transported) material ... F115XB001MO – Deep Loess Upland Woodland

ii. Loess >12" and <40"

- a. Pedisidiment/till substratum ... F115XB004MO – Loess Upland Woodland
- b. Residuum substratum ... F115XB005MO – Loamy Upland Woodland

iii. Little or no loess (<12")

a. Dolomite/Limestone residuum

- 1) Silt loam surface; not skeletal ... F115XB007MO – Loamy Limestone/Dolomite Upland Woodland
- 2) Skeletal to surface ... F115XB013MO – Chert Upland Woodland

b. Sandstone residuum ... F115XB016MO – Sandstone Upland Woodland

2 >15% slope

i. Loess >40"

- a. North, East aspects ... F115XB003MO – Deep Loess Protected Backslope Forest
- b. South, West aspects ... F115XB043MO – Deep Loess Exposed Backslope Woodland

ii. Loess >12" and <40"

- a. North, East aspects ... F115XB006MO – Loamy Protected Backslope Forest
- b. South, West aspects ... F115XB044MO – Loamy Exposed Backslope Woodland

iii. Little or no loess (<12")

a. Dolomite/Limestone residuum

- 1) Mollic (moist Munsell color value and chroma ≤ 3 ; minimum thickness of mollic colors is > 10 inches)

a) North, East aspects ... F115XB036MO – Calcareous Limestone Protected Backslope

Forest

b) South, West aspects ... F115XB050MO – Calcareous Limestone Exposed Backslope Woodland

2) Not Mollic

a) Silt Loam surface; not skeletal

(1) North, East aspects ... F115XB008MO – Loamy Limestone/Dolomite Protected Backslope Forest

(2) South, West aspects ... F115XB045MO – Loamy Limestone/Dolomite Exposed Backslope Woodland

b) Skeletal surface

(1) Bedrock >40"

(a) North, East aspects ... F115XB011MO – Chert Protected Backslope Forest

(b) South, West aspects ... F115XB048MO – Chert Exposed Backslope Woodland

(2) Bedrock 20-40"

(a) North, East aspects ... F115XB014MO – Chert Limestone/Dolomite Protected Backslope Forest

(b) South, West aspects ... F115XB046MO – Chert Limestone/Dolomite Exposed Backslope Woodland

b. Sandstone residuum

1) North, East aspects ... F115XB017MO – Sandstone Protected Backslope Forest

2) South, West aspects ... F115XB051MO – Sandstone Exposed Backslope Woodland

II. Upland Drainageways

A. Poorly to Somewhat Poorly Drained ... F115XB026MO – Wet Upland Drainageway Forest

B. Moderately Well to Well Drained ... F115XB028MO – Loamy/Gravelly Upland Drainageway Forest

III. High Terrace ... F115XB022MO – Loess High Terrace Forest

IV. Footslope ... F115XB023MO – Wet Footslope Forest

V. Low Terraces and Floodplain Steps

A. Mollic (Historic Prairie)

1 Poorly to Somewhat Poorly Drained ... R115XB038MO – Wet Terrace Prairie

2 Moderately Well to Well Drained ... R115XB037MO – Loamy Terrace Prairie

B. Not Mollic (Historic Forest)

1 Poorly to Somewhat Poorly Drained ... F115XB025MO – Wet Terrace Forest

2 Moderately Well to Well Drained ... F115XB024MO – Loamy Terrace Forest

C. HAHT (Human altered/human transported - Anthropic) material ... F115XB060MO – Anthropic Wet Terrace

VI. VI. Floodplains (occasional to frequent flooding)

A. Ponded ... R115XB042MO – Ponded Floodplain Prairie

B. Not ponded

1 Mississippi/Missouri River floodplain

i. Sandy, loamy ... F115XB015MO – Sandy/Loamy Floodplain Forest

ii. Clayey ... F115XB041MO – Clayey Floodplain Forest

2 Secondary stream floodplain

i. Skeletal ... F115XB020MO – Sandy/Gravelly Floodplain Forest

ii. Loamy ... F115XB031MO – Loamy Floodplain Forest

115XC

I. Uplands and high stream terraces

A. Bedrock limestone <50cm (20") ... F115XC001IL – Limestone Glade

B. Bedrock >50cm (20")

1 Loess, loess over glacial till/paleosol, glacial till

i. Dark surface (mollic epipedon) >25cm (10")

a. Slopes <18 percent ... R115XC002IL – Loess Upland Prairie

b. Slopes >18 percent ... R115XC003IL – Loess Hill Prairie

ii. Dark surface (mollic intergrade) 15-25cm (6-10") ... R115XC004IL – Loess Upland Savanna

iii. Light surface (ochric epipedon) or dark surface <15cm (6")

a. Slopes <18 percent

1) Depth to water table >30cm (12") ... F115XC005IL – Loess Upland Forest

2) Depth to water table <30cm (12") ... F115XC006IL – Loess Upland Flatwoods

b. Slopes >18 percent

1) North-East aspects ... F115XC007IL – Loess Protected Backslope Forest

2) South-West aspects ... F115XC008IL – Loess Exposed Backslope Woodland

2 Residuum weathered from cherty limestone

i. Slopes >18 percent, North-East aspects ... F115XC009IL – Chert Protected Backslope Forest

ii. Slopes >18 percent, South-West aspects ... F115XC010IL – Chert Exposed Backslope Woodland

3 Sandy eolian deposits, outwash

i. Dark surface (mollic epipedon) >25cm (10")

a. Depth to water table >30cm (12") ... R115XC011IL – Sand Prairie

b. Depth to water table <30cm (12") ... R115XC012IL – Wet Sand Prairie

ii. Light colored surface (ochric epipedon) or dark surface <15cm (6") ... F115XC013IL – Sand Woodland

II. Floodplains and low stream terraces subject to flooding

A. Low stream terrace, rare to occasionally flooded

1 Depth to water table >30cm (12") ... R115XC014IL – Terrace Savanna

2 Depth to water table <30cm (12") ... R115XC015IL – Wet Terrace Sedge Meadow

B. Floodplains, occasionally to frequently flooded

1 Site experiences flooding and ponding for long duration ... R115XC016IL – Ponded Floodplain Marsh

2 Site experiences flooding only

i. Not directly adjacent to stream channel

a. Depth to water table >30cm (12") ... R115XC017IL – Floodplain Prairie

b. Depth to water table <30cm (12") ... R115XC018IL – Wet Floodplain Sedge Meadow

ii. Directly adjacent to stream channel

a. Clayey alluvium, Poorly drained ... F115XC019IL – Clayey Floodplain Forest

b. Silty or loamy alluvium, Somewhat Poorly to Well drained ... F115XC020IL – Loamy Floodplain Forest

c. Sandy or gravelly alluvium, Well to Excessively drained ... F115XC021IL – Sandy Floodplain Forest