

# Major Land Resource Area 115X

## Central Mississippi Valley Wooded Slopes

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### Ecological site keys

#### 115XA

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#### 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**

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**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. Pedisidment/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. Foothills ... F115XB023MO – Wet Foothills 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 - Anthropogenic) material ... F115XB060MO – Anthropogenic Wet Terrace

## VI. Floodplains (occasional to frequent flooding)

A. Pondered ... R115XB042MO – Pondered Floodplain Prairie

### B. Not pondered

#### 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

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### 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 – Poned 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