

# Major Land Resource Area 134X Southern Mississippi Valley Loess

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## Ecological site keys

### MLRA 134 Main Belt (east of Mississippi River)

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#### I. North of Big Black River

##### A. Parent material loess

###### 1 Loess Hills physiographic subsection

i. **Backslopes (greater than 12 percent slopes)** ... F134XY001TN – Northern Deep Loess Backslope  
Mesophytic Forest

ii. **Summits (less than 12 percent slopes)** ... F134XY002TN – Northern Deep Loess Summit

###### 2 Loess Plains physiographic subsection

###### i. No restrictive layers or episaturation

###### a. Slopes less than 8 percent

1 **Interfluves/divides** ... F134XY003AL – Northern Loess Interfluve

2 **Terraces** ... F134XY007AL – Northern Loess Terrace

b. **Slopes greater than 8 percent** ... F134XY006AL – Northern Loess Sideslope

###### ii. Restrictive layers (fragipan) or episaturation

###### a. Interfluves/divides (uplands)

1 **Moderately well drained (fragipan)** ... F134XY012AL – Northern Loess Fragipan Upland

###### 2 **Drainage poor (SWPD/PD)**

i. **Somewhat poorly drained** ... F134XY004AL – Northern Moderately Wet Loess  
Interfluve

ii. **Poorly drained** ... F134XY005AL – Northern Wet Loess Interfluve

###### b. Terraces

1 **Moderately well drained (fragipan)** ... F134XY013AL – Northern Loess Fragipan Terrace

###### 2 **Drainage poor (SWPD/PD)**

i. **Somewhat poorly drained** ... F134XY008AL – Northern Moderately Wet Loess  
Terrace

###### ii. **Poorly drained**

a. **Ponded depressions** ... F134XY011AL – Northern Ponded Loess Terrace

b. **No ponding**

1 Natric soils ... F134XY009AL – Northern Natric Loess Terrace

2 Absence of natric horizons ... F134XY010AL – Northern Wet Loess Terrace

## B. Parent material alluvium

1 Soils non-acid reaction class (typically associated with floodplains in deep loess landscapes – e.g., Loess Hills)

i. Well to moderately well drained ... F134XY014AL – Northern Non-Acid Floodplain

ii. Drainage poor (SWPD/PD)

a. Somewhat poorly drained ... F134XY015AL – Northern Non-Acid Moderately Wet Floodplain

b. Poorly drained ... F134XY016AL – Northern Non-Acid Wet Floodplain

2 Soils acid reaction class

i. Soil drainage well to excessive (natural levees)

a. Excessively drained ... F134XY017AL – Northern Sandy Drainageway

b. Well to moderately well drained ... F134XY018AL – Northern Alluvial Flat

ii. Soil drainage poor (level to depressional floodplains)

a. Somewhat poorly drained ... F134XY019AL – Northern Moderately Wet Alluvial Flat

b. Poorly drained

1 Level floodplain (not ponded) ... F134XY020AL – Northern Wet Alluvial Flat

2 Ponded depressions ... F134XY021AL – Northern Backswamp

## II. South of Big Black River

### A. Loess

1 74a Southern Bluff Hills

i. Loess greater than 4 feet thick

a. Summits

1 Less than 12% Slope

i. Well Drained ... F134XY107MS – Southern Deep Loess Summit

b. Backslope

1 Greater than 12% Slope

i. Well Drained ... F134XY108MS – Southern Deep Loess Backslope

2 74c Southern Rolling Plains

i. No Fragipan

a. Loess greater than 4 feet thick

1 Terrace

i. Less than 8% Slope

a. Poorly Drained

1 No Ponding

i. Natric ... F134XY103MS – Southern Rolling Plains Loess Wet Terrace

ii. Not Natric ... F134XY103MS – Southern Rolling Plains Loess Wet  
Terrace

ii. Fragipan

a. Loess greater than 4 feet thick

1 Interfluvium

i. Less than 8% Slope

a. Somewhat Poorly Drained ... F134XY103MS – Southern Rolling Plains Loess  
Wet Terrace

b. Moderately Well Drained ... F134XY105MS – Southern Rolling Plains Loess  
Fragipan Upland

2 Sideslope

i. Greater than 8% Slope

a. Moderately Well Drained ... F134XY105MS – Southern Rolling Plains Loess  
Fragipan Upland

3 Terrace

i. Less than 8% Slope

a. Moderately Well Drained ... F134XY105MS – Southern Rolling Plains Loess  
Fragipan Upland

B. Loess over Marine Sediments

1 Southern Rolling Plains

i. No Fragipan

a. Loess 2 - 4 feet thick

1 Summit

i. Less than 8% Slope

a. Well drained ... F134XY106MS – Southern Rolling Plains Thin Loess Upland

2 Backslope

ii. Greater than 8% Slope

a. Well drained ... F134XY106MS – Southern Rolling Plains Thin Loess Upland

ii. Fragipan

a. Loess 2 - 4 feet thick

1 Summit

i. Less than 8% Slope

a. Well Drained, Moderately Well Drained ... F134XY105MS – Southern Rolling Plains  
Loess Fragipan Upland

2 Terrace

i. Greater than 8% Slope

a. Moderately Well Drained, Somewhat Poorly Drained ... F134XY103MS – Southern  
Rolling Plains Loess Wet Terrace

C. Alluvium

**1 Non-Acid**

**i. Drainageways**

**a. Well Drained, Moderately Well Drained ... F134XY102MS – Southern Rolling Plains Loess Stream Terrace**

**2 Acid**

**i. Natural Levee**

**a. Excessively Drained, Well Drained, Moderately Well Drained**

**1 Loamy ... F134XY102MS – Southern Rolling Plains Loess Stream Terrace**

**ii. Drainageways**

**a. Well Drained, Moderately Well Drained**

**1 Silty ... F134XY102MS – Southern Rolling Plains Loess Stream Terrace**

**b. Somewhat Poorly Drained**

**1 Silty ... F134XY101MS – Southern Rolling Plains Loess Drainways**

**c. Poorly Drained**

**1 Entic/Inceptic soil Orders**

**i. Silty ... F134XY101MS – Southern Rolling Plains Loess Drainways**

**III. Southern Main Belt - 74d - Baton Rouge Terrace**

**A. Loess**

**1 Fragipan**

**i. 2nd Terrace**

**a. Somewhat Poorly Drained ... F134XY124LA – Baton Rouge Terrace Southern Loess Terrace**

**2 No Fragipan**

**i. 2nd Terrace**

**a. Moderately Well Drained ... F134XY124LA – Baton Rouge Terrace Southern Loess Terrace**

**b. Somewhat Poorly Drained**

**1 High Sodium ... F134XY124LA – Baton Rouge Terrace Southern Loess Terrace**

**3 Fragipan**

**i. 1st Terrace**

**a. Somewhat Poorly Drained ... F134XY124LA – Baton Rouge Terrace Southern Loess Terrace**

**4 No Fragipan**

**i. 1st Terrace**

**a. Somewhat Poorly Drained ... F134XY124LA – Baton Rouge Terrace Southern Loess Terrace**

**b. Poorly Drained ... F134XY123LA – Baton Rouge Terrace Southern Loess Low Terrace**

**ii. Lower Landscape**

**a. Somewhat Poorly Drained** ... F134XY124LA – Baton Rouge Terrace Southern Loess Terrace

**b. Poorly Drained**

**1 High Sodium** ... F134XY123LA – Baton Rouge Terrace Southern Loess Low Terrace

**iii. Stream Terrace** ... F134XY122LA – Baton Rouge Terrace Southern Loess Stream Terrace

**iv. Ridge in Alluvial Swamp** ... F134XY122LA – Baton Rouge Terrace Southern Loess Stream Terrace

**v. Stream Bottom (Natural Levee)** ... F134XY121LA – Baton Rouge Terrace Southern Loess Drainageway

**MLRA 134 Northwest - Crowleys Ridge (west of Mississippi River)**

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**I. Crowley's Ridge uplands**

**A. Loess greater than 4 feet thick**

**1 Fragipan** ... F134XY207AL – Western Fragipan Uplands

**2 No fragipan**

**i. Backslopes greater than 12 percent slopes** ... F134XY001TN – Northern Deep Loess Backslope Mesophytic Forest

**ii. Summits less than 12 percent slopes** ... F134XY002TN – Northern Deep Loess Summit

**B. Loess-fluviomarine sediment complex**

**1 Backslopes greater than 12 percent slopes** ... F134XY208AL – Western Dry Loess Backslope

**2 Summits less than 12 percent slopes** ... F134XY210AL – Western Dry Loess Summit

**II. Loess-capped terraces (Pleistocene Valley Trains)**

**A. No restrictive horizons; well drained** ... F134XY201AL – Western Loess Terrace

**B. Restrictive horizons present or poorly drained soils with a glossic horizon**

**1 Moderately well drained fragipan** ... F134XY206AL – Western Fragipan Terrace

**2 Somewhat poorly drained fragipan** ... F134XY209AL – Western Moderately Wet Terrace

**3 Poorly drained fragipan/glossic horizon** ... F134XY202AL – Western Wet Loess Terrace

**4 Natric horizon** ... F134XY203AL – Western Alkali Flatwoods

**III. Floodplains**

**A. Well to moderately well drained** ... F134XY204AL – Western Alluvial Flat

B. Somewhat poorly drained ... F134XY205AL – Western Moderately Wet Alluvial Flat

## MLRA 134 Central-west - Macon Ridge (west of Mississippi River)

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### I. Loamy Alluvial - Minimal Loess

#### A. Loess less than 1 foot thick

##### 1 Ridge on Terraces

###### i. Well Drained

a. Loamy ... F134XY306LA – West Central Well Drained Loamy Ridge

ii. Somewhat Poorly Drained ... F134XY304LA – West Central Somewhat Poorly Drained Flats

### II. Loess

#### A. Loess greater than 4 feet thick

##### 1 Scarps & Convex ridges

###### i. Slopes 1 - 20 % (RV)

a. Well Drained - Moderately Well Drained ... F134XY308LA – West Central Scarp And Steep  
Loess Ridge - 5% & Greater Slope

##### 2 Summits

###### ii. Slopes 1 - 5 % (RV)

a. Well Drained - Moderately Well Drained ... F134XY307LA – West Central Loess Ridge

#### B. Loess 2 - 4 feet thick

##### 1 Terrace

###### i. Somewhat Poorly Drained

a. Natric ... F134XY303LA – West Central Natric Loess Terrace

##### 2 Flats

###### i. Poorly Drained

a. Natric ... F134XY303LA – West Central Natric Loess Terrace

##### 3 Broad Flats, Drains & Depressions

###### i. Poorly Drained

a. Brief Flood Duration ... F134XY302LA – West Central Swales/Depressions Wet Flats

b. Long Flood Duration ... F134XY301LA – West Central Flooded Swales And  
Depressions And Flood Plains

## MLRA 134 Southwest - Lafayette Loess (west of Mississippi River)

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**A. Summit** ... R134XY404LA – Southwestern Loess Ridge Prairie

**B. Sideslope Summit** ... R134XY404LA – Southwestern Loess Ridge Prairie

**C. 2nd Terrace** ... R134XY404LA – Southwestern Loess Ridge Prairie

**D. 1st Terrace** ... R134XY402LA – Southwestern Loess Terrace Prairie

**E. Lower Landscape** ... R134XY402LA – Southwestern Loess Terrace Prairie

**F. Stream Bottom** ... F134XY121LA – Baton Rouge Terrace Southern Loess Drainageway

**II. Pre-Peorian age Loess - 35f**

**A. Terrace** ... R134XY421LA – Southwestern Pre-Peoria Loess Prairie