

# 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 - PROVISIONAL

2 Terraces ... F134XY007AL – Northern Loess Terrace - PROVISIONAL

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

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

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

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

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

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

ii. Poorly drained ... F134XY005AL – Northern Wet Loess Interfluve - PROVISIONAL

###### b. Terraces

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

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

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

###### ii. Poorly drained

a. Ponded depressions ... F134XY011AL – Northern Ponded Loess Terrace - PROVISIONAL

###### b. No ponding

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

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

###### 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 - PROVISIONAL
- ii. Drainage poor (SWPD/PD)
  - a. Somewhat poorly drained ... F134XY015AL – Northern Non-Acid Moderately Wet Floodplain - PROVISIONAL
  - b. Poorly drained ... F134XY016AL – Northern Non-Acid Wet Floodplain - PROVISIONAL

## 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 - PROVISIONAL
- ii. Soil drainage poor (level to depressional floodplains)
  - a. Somewhat poorly drained ... F134XY019AL – Northern Moderately Wet Alluvial Flat - PROVISIONAL
  - b. Poorly drained
    - 1 Level floodplain (not ponded) ... F134XY020AL – Northern Wet Alluvial Flat - PROVISIONAL
    - 2 Ponded depressions ... F134XY021AL – Northern Backswamp - PROVISIONAL

## 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 - PROVISIONAL
  - b. Backslope
    - 1 Greater than 12% Slope
      - i. Well Drained ... F134XY108MS – Southern Deep Loess Backslope - PROVISIONAL

#### 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 - PROVISIONAL
            - ii. Not Natric ... F134XY103MS – Southern Rolling Plains Loess Wet Terrace - PROVISIONAL
- ii. Fragipan
  - a. Loess greater than 4 feet thick
    - 1 Interfluve
      - i. Less than 8% Slope
        - a. Somewhat Poorly Drained ... F134XY103MS – Southern Rolling Plains Loess Wet Terrace - PROVISIONAL
        - b. Moderately Well Drained ... F134XY105MS – Southern Rolling Plains Loess Fragipan Upland - PROVISIONAL
  - 2 Sideslope
    - i. Greater than 8% Slope

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

3 Terrace

i. Less than 8% Slope

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

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 - PROVISIONAL

2 Backslope

ii. Greater than 8% Slope

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

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 - PROVISIONAL

2 Terrace

i. Greater than 8% Slope

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

C. Alluvium

1 Non-Acid

i. Drainageways

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

2 Acid

i. Natural Levee

a. Excessively Drained, Well Drained, Moderately Well Drained

1 Loamy ... F134XY102MS – Southern Rolling Plains Loess Stream Terrace - PROVISIONAL

ii. Drainageways

a. Well Drained, Moderately Well Drained

1 Silty ... F134XY102MS – Southern Rolling Plains Loess Stream Terrace - PROVISIONAL

b. Somewhat Poorly Drained

1 Silty ... F134XY101MS – Southern Rolling Plains Loess Drainways - PROVISIONAL

c. Poorly Drained

1 Entic/Inceptic soil Orders

i. Silty ... F134XY101MS – Southern Rolling Plains Loess Drainways - PROVISIONAL

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 - PROVISIONAL

2 No Fragipan

i. 2nd Terrace

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

b. Somewhat Poorly Drained

1 High Sodium ... F134XY124LA – Baton Rouge Terrace Southern Loess Terrace - PROVISIONAL

3 Fragipan

i. 1st Terrace

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

4 No Fragipan

i. 1st Terrace

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

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

ii. Lower Landscape

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

b. Poorly Drained

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

iii. Stream Terrace ... F134XY122LA – Baton Rouge Terrace Southern Loess Stream Terrace - PROVISIONAL

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

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

## **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 - PROVISIONAL

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 - PROVISIONAL

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

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

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

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

1 Moderately well drained fragipan ... F134XY206AL – Western Fragipan Terrace - PROVISIONAL

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

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

4 Natric horizon ... F134XY203AL – Western Alkali Flatwoods - PROVISIONAL

## III. Floodplains

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

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

## 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 - PROVISIONAL

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

### 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 - PROVISIONAL

2 Summits

ii. Slopes 1 - 5 % (RV)

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

B. Loess 2 - 4 feet thick

1 Terrace

i. Somewhat Poorly Drained

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

2 Flats

i. Poorly Drained

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

3 Broad Flats, Drains & Depressions

i. Poorly Drained

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

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

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

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### **I. Loess - 34j**

- A. Summit ... R134XY404LA – Southwestern Loess Ridge Prairie - PROVISIONAL
- B. Sideslope Summit ... R134XY404LA – Southwestern Loess Ridge Prairie - PROVISIONAL
- C. 2nd Terrace ... R134XY404LA – Southwestern Loess Ridge Prairie - PROVISIONAL
- D. 1st Terrace ... R134XY402LA – Southwestern Loess Terrace Prairie - PROVISIONAL
- E. Lower Landscape ... R134XY402LA – Southwestern Loess Terrace Prairie - PROVISIONAL
- F. Stream Bottom ... F134XY121LA – Baton Rouge Terrace Southern Loess Drainageway - PROVISIONAL

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

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