

Major Land Resource Area 109X Iowa and Missouri Heavy Till Plain

Accessed: 04/25/2024

Ecological site keys

MLRA 109

I. Upland Summits, Shoulders, or Backslopes

A. SHALLOW LIMESTONE BACKSLOPE GLADE/WOODLAND Bedrock < 20" to Limestone

B. Bedrock > 20", or soft shale bedrock

1. Loess >24" (dominantly loess)

i. Mollisol/Mollic subgroup

a. CLAYPAN SUMMIT PRAIRIE Claypan

b. LOESS UPLAND PRAIRIE No root restriction

ii. LOESS UPLAND WOODLAND Alfisol

2. Little or no loess

i. <15% slope

a. Till

1) TILL UPLAND PRAIRIE Mollisol

2) TILL UPLAND SAVANNA Mollic subgroup

3) TILL UPLAND WOODLAND Alfisol

b. Interbedded shale, sandstone, siltstone, limestone residuum

1) INTERBEDDED SEDIMENTARY UPLAND SAVANNA Mollisol/Mollic subgroup

2) INTERBEDDED SEDIMENTARY UPLAND WOODLAND Alfisol

ii. >14% slope

a. Till

1) TILL BACKSLOPE SAVANNA Mollic or Mollic intergrade

2) Alfic

a) TILL PROTECTED BACKSLOPE FOREST N, E aspects

b) TILL EXPOSED BACKSLOPE WOODLAND S, W aspects

b. Interbedded shale, sandstone, siltstone, limestone residuum

1) INTERBEDDED SEDIMENTARY BACKSLOPE SAVANNA Mollisol/Mollic subgroup

2) Alfic

a) INTERBEDDED SEDIMENTARY PROTECTED BACKSLOPE FOREST N, E aspects

b) INTERBEDDED SEDIMENTARY EXPOSED BACKSLOPE WOODLAND S, W aspects

c. LOAMY BACKSLOPE WOODLAND Limestone residuum; loamy surface

II. Footslopes, High Loess-Covered Terraces

A. Mollic

1. LOAMY FOOTSLOPE SAVANNA MW, W Drained

2. WET LOESS HIGH TERRACE SAVANNA SWP, P Drained

B. Alfic

1. LOESS HIGH TERRACE WOODLAND High Loess-covered Stream/Outwash Terraces

III. Upland Drainageways

A. MW, W Drained

1. LOAMY UPLAND DRAINAGEWAY SAVANNA Mollic
2. LOAMY UPLAND DRAINAGEWAY WOODLAND Not Mollic

B. WET UPLAND DRAINAGEWAY PRAIRIE SWP, P Drained

IV. Low Stream Terraces & Floodplain Steps (stepped up from active floodplain; variable flooding)

A. LOAMY TERRACE SAVANNA MW, W Drained

B. WET TERRACE PRAIRIE SWP, P, Drained

V. Floodplains

A. PONDED FLOODPLAIN PRAIRIE Pondered

B. Not Pondered

1. Not adjacent to current/former channel

i. Farthest from channel

- a. LOAMY FLOODPLAIN PRAIRIE MW Drained; loamy
- b. WET FLOODPLAIN PRAIRIE SWP, P Drained; clayey

2. WET FLOODPLAIN WOODLAND Adjacent to Riverfront Forest (SWP, P Drained)

3. LOAMY FLOODPLAIN FOREST Adjacent to current/former channel