

Major Land Resource Area 108X

Illinois and Iowa Deep Loess and Drift

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Ecological site keys

MLRA 108B Key to Ecological Sites

I. Uplands (bluffs, ground moraines, hills)

A. Bedrock <1.5m (60")

1 Bedrock is limestone ... R108XB001IL – Limestone Prairie

2 Bedrock is shale

i. Dark surface (mollic epipedon) >25cm (10") ... R108XB002IL – Shale Prairie

ii. Light surface (ochric epipedon) or dark surface <25cm (10") ... F108XB003IL – Shale Woodland

3 Bedrock is sandstone ... F108XB004IL – Sandstone Woodland

B. Bedrock >1.5m (60")

1 Parent material is loess (>100cm thick)

i. Linear to convex summits, shoulders, backslopes, and broad interfluvial summits

a. Dark surface (mollic epipedon) >25cm (10") ... R108XB005IL – Loess Upland Prairie

b. Dark surface (mollic intergrade) 15-25cm (6-10") ... R108XB006IL – Loess Upland Savanna

c. Light surface (ochric epipedon) or dark surface <15cm (6") ... F108XB007IL – Loess Upland Forest

ii. Linear to concave footslopes, toeslopes, flats, and heads of drainageways ... R108XB008IL – Wet Loess Upland Prairie

iii. Concave, closed depressions ... R108XB009IL – Pondered Loess Sedge Meadow

2 Parent material is till/paleosol/pediment (<100cm of loess)

i. Dark surface (mollic epipedon) >25cm (10") ... R108XB010IL – Till Upland Prairie

ii. Dark surface (mollic intergrade) 15-25cm (6-10") ... R108XB011IL – Till Upland Savanna

iii. Light surface (ochric epipedon) or dark surface <15cm (6") ... F108XB012IL – Till Upland Forest

II. Outwash/lacustrine plains and terraces (includes dune topography)

A. Outwash (including outwash with a loess cap 50-100cm)

1 Linear to convex summits and backslopes

i. Dark surface (mollic epipedon) >25cm (10") ... R108XB013IL – Loamy Outwash Prairie

ii. Light surface (ochric epipedon) or dark surface <25cm (10") ... F108XB014IL – Loamy Outwash Forest

2 Linear to concave footslopes, toeslopes, and heads of drainageways ... R108XB015IL – Wet Loamy Outwash Prairie

B. Sandy eolian deposits

1 Dark surface (mollic epipedon) >25cm (10") ... R108XB016IL – Sand Prairie

2 Light surface (ochric epipedon) ... F108XB017IL – Sand Woodland

C. Linear to concave lacustrine deposits, fine textured ... R108XB018IL – Wet Lacustrine Prairie

D. Concave to linear organic deposits ... R108XB019IL – Mucky Sedge Meadow

III. Floodplains and low terraces subject to flooding

A. Water table is deeper than 30cm (12") ... F108XB020IL – Loamy Floodplain Forest

B. Water table is within 30cm (12") ... F108XB021IL – Wet Loamy Floodplain Forest