

# Major Land Resource Area 108X

## Illinois and Iowa Deep Loess and Drift

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### Ecological site keys

#### MLRA 108C Key to Ecological Sites

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##### I. Uplands and High Stream Terraces

###### A. Summits, Shoulders, and Backslopes

###### 1 Shallow (<100cm) silty or loamy sediments over bedrock

- i. <50cm to limestone bedrock ... F108XC501IA – Shallow Limestone Backslope Glade
- ii. >50cm to sandstone bedrock ... F108XC502IA – Shallow Sandstone Backslope Glade

###### 2 Loess

- i. Mollisol (or Inceptisol with mollic epipedon) ... R108XC503IA – Loess Upland Prairie
- ii. Mollic subgroup of an Alfisol ... R108XC504IA – Loess Upland Savanna
- iii. Alfisol (or Inceptisol or Entisol) ... F108XC505IA – Loess Upland Woodland

###### 3 Eolian sands (including <150cm loess over eolian sands)

- i. Mollisol ... R108XC506IA – Sandy Upland Prairie
- ii. Mollic subgroup of an Alfisol ... R108XC507IA – Sandy Upland Savanna
- iii. Alfisol (or Entisol with lamellic horizon) ... F108XC508IA – Sandy Upland Woodland

###### 4 Glacial till/paleosols/valley-fill sediments (including <50cm loess over glacial till)

- i. Mollisol
  - a. Deep to water table (>30cm) ... R108XC509IA – Till Backslope Prairie
  - b. Shallow to water table (<30 cm) ... R108XC510IA – Till Backslope Seepage Meadow
- ii. Mollic subgroup of an Alfisol (or contains mollic surface horizon 15-25cm thick)
  - a. Deep to water table (>30cm) ... R108XC511IA – Till Backslope Savanna
  - b. Shallow to water table (<30cm) ... R108XC512IA – Till Backslope Seep Savanna
- iii. Alfisol
  - a. Deep to water table (>30cm) ... F108XC513IA – Till Backslope Forest
  - b. Shallow to water table (<30cm) ... F108XC514IA – Till Backslope Seep Forest

###### B. Broad Upland Flats and Depressions

###### 1 Depressions, ponded ... R108XC515IA – Ponded Upland Depression Sedge Meadow

###### 2 Upland flat, not ponded, loess parent material, shallow to water table ( $\leq 30$ cm), Somewhat Poorly to Very Poorly drained

- i. Mollisol ... R108XC516IA – Wet Loess Upland Flat Prairie
- ii. Mollic subgroup of an Alfisol (or contains mollic surface horizon 15-25cm thick) ... R108XC517IA – Wet Loess Upland Flat Savanna
- iii. Alfisol ... F108XC518IA – Wet Loess Upland Flatwood

###### C. Drainageways

###### 1 Located downslope from an Upland Prairie or Upland Savanna ecological site ... R108XC519IA – Wet Upland Drainageway Prairie

###### 2 Located downslope from an Upland Woodland or Upland Forest ecological site ... F108XC520IA – Upland

## Drainageway Woodland

### II. River Valleys

A. Valley Footslope, colluvial parent materials ... F108XC521IA – Colluvial Woodland

#### B. Low Stream Terraces

1 Deep to water table (>30cm), Moderately Well to Somewhat Excessively drained ... R108XC522IA – Terrace Savanna

2 Shallow to water table (<30cm), Somewhat Poorly to Poorly drained ... R108XC523IA – Wet Terrace Sedge Meadow

#### C. Floodplains

##### 1 Flooded and ponded

i. Organic soils (histic epipedon  $\geq 20$ cm) ... R108XC524IA – Ponded Organic Floodplain Shrub Swamp

ii. Mineral soils ... R108XC525IA – Ponded Floodplain Marsh

##### 2 Flooded only

###### i. Not directly adjacent to stream channel

a. Deep to water table (>30cm) ... R108XC526IA – Floodplain Prairie

b. Shallow to water table (<30cm) ... R108XC527IA – Wet Floodplain Sedge Meadow

###### ii. Directly adjacent to stream channel

a. Fine, fine-silty alluvium, Poorly to Very Poorly drained ... F108XC528IA – Floodplain Swamp Forest

b. Fine-loamy, fine-silty alluvium, Somewhat Poorly to Moderately Well drained ... F108XC529IA – Loamy Floodplain Forest

c. Coarse-loamy alluvium, Well to Excessively drained ... F108XC530IA – Sandy Floodplain Forest