

Major Land Resource Area 104X

Eastern Iowa and Minnesota Till Prairies

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Ecological site keys

MLRA 104 Key to Provisional Ecological Sites

I. Uplands

A. Histosols ... R104XY001IA – Organic Sedge Meadow

B. Mineral Soils

1 Summits, Shoulders & Backslopes

i. Shallow ($\leq 100\text{cm}$) loamy sediments over bedrock

a. Mollisols

1) Deep to water table (≥ 12 inches ($\geq 30\text{cm}$)) ... R104XY002IA – Bedrock Prairie

2) Shallow to water table (≤ 12 inches $\leq 30\text{cm}$) ... R104XY003IA – Wet Bedrock Prairie

b. Alfisols ... F104XY004IA – Bedrock Woodland

ii. Loess or Loamy Sediments over Glacial Till

a. Mollisols

1) Deep to the water table (≥ 30 cm) ... R104XY005IA – Loamy Upland Prairie

2) Shallow to water table ($\leq 30\text{cm}$) ... R104XY006IA – Wet Loamy Upland Prairie

b. Mollic subgroup of an Alfisols

1) Deep to the water table ($\geq 30\text{cm}$) ... R104XY007IA – Loamy Upland Savanna

2) Shallow to the water table ($\leq 30\text{cm}$) ... R104XY008IA – Wet Loamy Upland Savanna

c. Alfisols ... F104XY009IA – Loamy Upland Woodland

iii. Eolian sands

a. Mollisols ... R104XY010IA – Sandy Upland Prairie

b. Mollic subgroup of an Alfisols ... R104XY011IA – Sandy Upland

Savanna

2 Drainageways ... R104XY012IA – Wet Upland Drainageway Sedge Meadow

3 Depressions ... R104XY013IA – Ponded Upland Depression Sedge Meadow

II. River Valleys

A. Histosols (go to I.A.)

B. Mineral soils

1 Low Stream Terraces

i. Deep to water table ($\geq 30\text{cm}$), SWP to SWE-drained ... R104XY015IA – Terrace Savanna

ii. Shallow to water table ($\leq 30\text{cm}$), VP to P-drained ... R104XY016IA – Wet Terrace Sedge Meadow

2 Floodplains

i. Flooded & ponded ... R104XY014IA – Ponded Floodplain Marsh

ii. Flooded only

a. Not directly adjacent to stream channel

1) Deep to water table ($\geq 30\text{cm}$) ... R104XY017IA – Floodplain Prairie

2) Shallow to water table ($\leq 30\text{cm}$) ... R104XY018IA – Wet Floodplain Sedge Meadow

b. Directly adjacent to stream channel

1) Fine, fine-silty alluvium, P to VP-drained ... F104XY019IA – Floodplain Swamp Forest

2) Fine-loamy, fine-silty alluvium, SWP to MW-drained ... F104XY020IA – Loamy Floodplain Forest

3) Coarse-loamy alluvium, W to E-drained ... F104XY021IA – Sandy Floodplain Forest