

Major Land Resource Area 103X

Central Iowa and Minnesota Till Prairies

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Ecological site keys

MLRA 103X

I. Sites located in an upland position

A. sites located on summits, shoulders, and backslopes

1 Outwash and glaciofluvial sediments

- i. Loamy capped Mollisols ... R103XY003MN – Sandy Upland Prairies
- ii. Loamy capped Argiudolls ... R103XY019MN – Sandy Upland Savannas
- iii. Big Woods ... F103XY024MN – Sandy Upland Forests

2 Loamy glacial till

- i. Calcareous ... R103XY002MN – Calcareous Upland Prairies
- ii. Not Calcareous
 - a. Typic/Oxyaquic Mollisols ... R103XY004MN – Loamy Upland Prairies
 - b. Argiudolls ... R103XY020MN – Loamy Upland Savannas
 - c. Big Woods ... F103XY025MN – Loamy Upland Forests

3 Fine lacustrine and fine glacial till

- i. Fine family Mollisols ... R103XY005MN – Clayey Upland Prairies
- ii. Fine family Big Woods ... F103XY026MN – Clayey Upland Forests
- iii. Fine family Argiudolls ... R103XY021MN – Clayey Upland Savannas

B. Sites located on footslopes and toeslopes

1 Drainageways

- i. Flooded
 - a. P drained (0+'' depth to wet layer) ... R103XY012MN – Wet Footslope/Drainageway Prairies
 - b. SWP-W drained (12+'' depth to wet layer) ... R103XY011MN – Footslope/Drainageway Prairies
- ii. Not flooded (Big Woods)
 - a. SWP-P drained (0+'' depth to wet layer) ... F103XY030MN – Wet Footslope/Drainageway Forests
 - b. SWP-W drained (12+'' depth to wet layer) ... F103XY029MN – Footslope/Drainageway Forests

2 Rims ... R103XY009MN – Calcareous Rim Prairies

3 Depressions

i. Poned

a. Organic soil

- 1) Herbaceous peat ... R103XY016MN – Organic Marsh
- 2) Limnic sediment ... R103XY018MN – Shallow Lakes
- 3) Big Woods ... R103XY017MN – Organic Wet Meadow/Carr

b. Mineral soils

- 1) recharge hydrology ... R103XY014MN – Recharge Depressions
- 2) Discharge hydrology
 - a) Prairie region ... R103XY015MN – Depressional Marsh

b) Big Woods ... F103XY036MN – Depressional Wet Forests

ii. Not ponded

a. Outwash and glaciofluvial sediments ... R103XY007MN – Sandy Wet Prairies

b. Loamy glacial till

1) Typic Endoaquolls ... R103XY001MN – Loamy Wet Prairies

2) Typic Argiaquolls ... R103XY022MN – Loamy Wet Savannas

3) Big Woods ... F103XY027MN – Loamy Wet Forests

c. Fine lacustrine sediments and fine glacial till

1) Big Woods ... F103XY028MN – Clayey Wet Forests

2) Vertic Argiaquolls ... R103XY023MN – Clayey Wet Savannas

3) Vertic Endoaquolls ... R103XY008MN – Clayey Wet Prairies

II. Sites located in a lowland position

A. Bedrock-controlled terraces

1 Flooded ... R103XY010MN – Bedrock Controlled Wet Prairies

2 Not flooded ... R103XY006MN – Bedrock Controlled Upland Prairies

B. Floodplains

1 Ponded only (groundwater discharge) ... R103XY013MN – Calcareous Fens

2 Ponded and Flooded

i. Organic soils ... R103XY035MN – Organic Floodplain Marsh

ii. Mineral soils ... R103XY034MN – Floodplain Marsh

3 Flooded only

i. Clayey alluvium, VP-P drained ... F103XY033MN – Wet Floodplains

ii. Loamy alluvium, SWP-MW drained ... F103XY032MN – Loamy Floodplains

iii. Sandy alluvium, MW-EW drained ... F103XY031MN – Sandy Floodplains