USDA icon **Natural Resources Conservation Service**

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. Ponded

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