

Major Land Resource Area 055B Central Black Glaciated Plains

Accessed: 05/15/2026

Ecological site keys

MLRA 55B

A Sites have indicators of saturation within a depth of 42 inches during the growing season. (mucky surface, observed water table, redoximorphic depletions, redoximorphic concentrations)

I Site is located on a floodplain and indications of saturation within 2 feet of the soil surface and the site is dominated by hydrophytes ...

R055BY077ND – Linear Meadow

II Site on lowland with EC>8 and/or visible salts and/or salt tolerant vegetation present.

a Soil has strong effervescence within 16 inches of the soil surface ... R055BY060ND – Saline Lowland

b Soil does not have strong effervescence within 16 inches of the soil surface ... R055BY076ND – Saline
Subirrigated

III Site has strong effervescence within 16 inches of soil surface ... R055BY058ND – Limy Subirrigated

IV Site is typically located in depressions, early growing season ponding, and is poorly drained ... R055BY071ND – Wet
Meadow

V Soil has redoximorphic features visible 24-42 inches from the soil surface and is somewhat poorly drained ... R055BY065ND –
Subirrigated

VI Site is located on deep depressions, is usually ponded into mid-summer, has high organic matter content and is very poorly drained ...
R055BY070ND – Shallow Marsh

VII Soil surface texture is fine sandy loam to loamy sand ... R055BY074ND – Subirrigated Sands

B Site is located on uplands and has root-restrictive layer within 20 inches from soil surface

I Soil with >15% coarse sand or gravel at depths <14 inches ... R055BY069ND – Very Shallow

II Soil depth is 9-20 inches to bedrock

a Soil depth is 10-20” to soft, weathered shale beds ... R055BY073ND – Shallow Loamy

b Soil substratum contains up to 10-60% gravel and/or 25-75% sand ... R055BY063ND – Shallow Gravel

C Site is located on uplands and has a sand content of >45% in the soil surface

I Site is located on dunes with >15% slope ... R055BY067ND – Choppy Sands

II Site has a sodic, dense claypan layer within 6-18” of surface and fine sandy loam or silt loam soil surface texture ...
R055BY072ND – Sandy Claypan

III Fine sandy loam and sandy loam soil surface textures ... R055BY062ND – Sandy

IV Loamy fine sand to fine sand soil surface textures ... R055BY061ND – Sands

D Site has a clay content >35% in the soil surface

I Silty clay to clay soil surface texture and no root restrictive layer ... R055BY056ND – Clayey

II Soil has a dense, root-restrictive, claypan layer <6” from the surface ... R055BY066ND – Thin Claypan

**III Soil has dense, root-restrictive, claypan layer at 6-14” from the surface and a clay loam to clay soil surface texture ...
R055BY057ND – Claypan**

E All other sites

I Site is in a floodplain or swale and fine sand loam or loam soil surface texture ... R055BY059ND – Loamy Overflow

**II Site located on shoulder slopes, convex rises, and summits. Strong to violent effervescence immediately below the surface layer ...
R055BY068ND – Thin Loamy**

III All other sites ... R055BY064ND – Loamy