

Major Land Resource Area 055D

Glacial Lake Dakota

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Ecological site keys

MLRA 55D

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 ... R055DY077SD – Linear Meadow

II Site on lowland with EC>8 and/or visible salts and/or salt tolerant vegetation present. Soil has strong effervescence within 16 inches of the soil surface ... R055DY060SD – Saline Lowland

III Site has strong effervescence within 16 inches of soil surface ... R055DY058SD – Limy Subirrigated

IV Site is typically located in depressions, early growing season ponding, and is poorly drained ... R055DY071SD – Wet Meadow

V Soil has redoximorphic features visible 24-42 inches from the soil surface and is somewhat poorly drained ... R055DY065SD – Subirrigated

VI Site is located on deep depressions, is usually ponded into mid-summer, has high organic matter content and is very poorly drained ... R055DY070SD – Shallow Marsh

VII Soil surface texture is fine sandy loam to loamy sand ... R055DY074SD – 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 ... R055DY069SD – Very Shallow

II Soil depth is 9-20 inches to bedrock

a Soil depth is 10-20" to soft, weathered shale beds ... R055DY073SD – Shallow Loamy

b Soil substratum contains up to 10-60% gravel and/or 25-75% sand ... R055DY063SD – 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 ... R055DY067SD – 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 ... R055DY072SD – Sandy Claypan

III Fine sandy loam and sandy loam soil surface textures ... R055DY062SD – Sandy

IV Loamy fine sand to fine sand ... R055DY061SD – Sands

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

I. Silty clay to clay soil surface texture and no root restrictive layer ... R055DY056SD – Clayey

II. Soil has a dense, root-restrictive, claypan layer <6" from the surface ... R055DY066SD – 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 ... R055DY057SD – Claypan

E. All other sites

I. Site is in a floodplain or swale and fine sand loam or loam soil surface texture ... R055DY059SD – Loamy Overflow

II. Site located on shoulder slopes, convex rises, and summits. Strong to violent effervescence immediately below the surface layer ... R055DY068SD – Thin Loamy

III. All other sites ... R055DY064SD – Loamy