

## Major Land Resource Area 053B Central Dark Brown Glaciated Plains

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### Ecological site keys

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#### A. The sites have a water table <42 inches and occur in run-in positions on the landscape.

I. EC >8 and/or visible salts in the soil profile and typically, redoximorphic features are within a depth of 30 inches and poorly drained to somewhat poorly drained ... R053BY006ND – Saline Lowland

II. Depth to a highly calcareous subsoil (strong or violent effervescence) is >16 inches, somewhat poorly drained and redoximorphic features (primarily concentrations) typically occur at a depth between 18 and 42 inches ... R053BY004ND – Limy Subirrigated

III. Soil has redoximorphic features visible from 18-42 inches from the soil surface and somewhat poorly drained. ... R053BY012ND – Subirrigated

IV. IV. Generally, redox features are within a depth of 18 inches, poorly drained ... R053BY019ND – Wet Meadow

V. Deep depressions which have frequent ponding through most of the growing season (typically extends into mid-summer or longer), and very poorly drained ... R053BY025ND – Shallow Marsh

#### B. Soil depth is <20 inches to bedrock or sand and gravel (>15% gravel)

I. Soils with >15% gravels at < 14 inches of depth ... R053BY017ND – Very Shallow

II. Soils with >15% gravels at depths 14 to 20 inches ... R053BY010ND – Shallow Gravel

III. Soils are shallow (10 to 20 inches) to soft sedimentary sandstone , if forms a ribbon, it is <1 inch long. ... R053BY027ND – Shallow Sandy

IV. soil forms a ribbon 1 to 2 inches long from typically siltstone, mudstone or shale ... R053BY009ND – Shallow Loamy

#### C. Sand content is >45% in soil surface texture

I. located on dunes with >15% slope, soil surface textures are fine sand and loamy fine sand. ... R053BY014ND – Choppy Sands

II. Has sodic, dense claypan layer at >6 inches with salts >20 inches of soil surface and a fine sandy loam or sandy loam soil surface texture ... R053BY026ND – Sandy Claypan

III. slopes are <25%; Fine sandy loam and sandy loam soil surface textures. Soil will form a ribbon <1 inch long ... R053BY008ND – Sandy

iv. slopes are <15%; Loamy fine sand to fine sand soil surface textures. Soil will not form a ribbon. ... R053BY007ND – Sands

#### D. Clay Content is >35% in soil surface texture

I. Silty loam to clay soil surface texture and no root restrictive layer ... R053BY001ND – Clayey

**II. Soils in this site are the shallow depth (typically less than 6 inches) to a dense, root- restrictive, sodic claypan layer and salt accumulations within a depth of 16 inches; surface soil textures are typically loam or silt loam, but silty clay loam can occur. ...**

R053BY013ND – Thin Claypan

**III. Soil has dense, root-restrictive, claypan layer at 6-20" from the surface and a loam to silty clay loam soil surface texture. ...**

R053BY002ND – Claypan

**E. All others**

**I. Site is located in a swale or terrace with a loam, silt loam, or silty clay loam soil surface texture ... R053BY005ND – Loamy Overflow**

**II. Site is located on shoulder slopes, convex rises, ridges and summits; calcareous (strong to violent effervescence) subsoil layer occurs within a depth of 8 inches. soil surface textures are loam to silty clay loam. ... R053BY015ND – Thin Loamy**

**III. All other sites. ... R053BY011ND – Loamy**