## Major Land Resource Area 053C Southern Dark Brown Glaciated Plains

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## **Ecological site keys**

## MLRA 53C Ecological Site Key

- I. RUN-OFF LANDSCAPE POSITIONS- Upland, normally convex, short slopes.
  - 1 Is there a root restricting layer within 10 inches of soil surface? ... R053CY016SD Very Shallow
  - 2 Is there a root restricting layer within 10-20 inches of soil surface?
    - a. Restricting layer is >15% gravel by volume. ... R053CY014SD Shallow To Gravel
    - b. Does the soil effervesce with acid (10% HCl) within 6 inches of the surface? ... R053CY012SD Thin Upland
- II. NORMAL LANDSCAPE POSITIONS- Upland, normally linear slopes with the exception of sandy sites which may have complex slopes.
  - 1 Is there a claypan (columnar soil structure) within 16 inches of surface?
    - a. See "IV. Other Landscape Positions"
  - 2 What is the surface and subsoil texture?
    - a. Clay, Silty Clay (>55% clay) surface texture with Clayey subsoil texture. ... R053CY018SD Dense Clay
    - b. Clay, Silty Clay (40-55% clay) or Loamy surface texture with Clayey subsoil texture. ... R053CY011SD Clayey
    - c. Loam, Silt Loam, Silty Clay Loam, Clay Loam, Sandy Clay Loam, Very Fine Sandy Loam. ... R053CY010SD Loamy
    - d. Sandy Loam, Fine Sand Loam, Loamy Very Fine Sand. ... R053CY009SD Sandy
- III. RUN-IN LANDSCAPE POSITIONS- Floodplains, drainageways, etc. For depressional landscape positions, see "IV. Other Landscape Positions".
  - 1 Is there evidence of a permanent water table within 24 inches of the soil surface, with the site having dominantly hydrophytic vegetation?
    - a. Are there visible salts (including sodium and gypsum) within 16 inches of the surface?
      - 1 Yes. ... R053CY007SD Saline Lowland
      - 2 No. ... R053CY002SD Linear Meadow
  - 2 Is there evidence of a permanent1 water table between 24 and 60 inches below the soil surface?
    - a. Does the soil effervesce with acid (10% HCl) within 6 inches of the surface?
      - 1 Yes. ... R053CY006SD Limy Subirrigated
      - 2 No. ... R053CY003SD Subirrigated
  - 3 Does water flow into and over/through the site?
    - a. Does the site have a flooding frequency?
      - 1 Yes: What is the soil surface and subsurface texture?
        - i. Loam, Silt Loam, Silty Clay Loam, Clay Loam, or Sandy Clay Loam. ... R053CY040SD Loamy Floodplain
        - ii. Clay, Silty Clay (40-55% clay) or Loamy Surface with Clayey Subsoil. ... R053CY041SD Clayey Floodplain
      - 2 No: What is the soil surface and subsurface texture?

- i. Loam, Silt Loam, Silty Clay Loam, Clay Loam, Sandy Clay Loam, Very Fine Sandy Loam. ... R053CY020SD Loamy Overflow
- IV. OTHER LANDSCAPE POSITIONS- Basins, depressions, run-off and/or run-in positions
  - 1 Does the soil have a claypan (columnar structure) within 16 inches of the soil surface?
    - a. Yes: Is the site in a closed depression?
      - 1 Yes. ... R053CY019SD Closed Depression
      - 2 No: Is the claypan within 4 inches of the soil surface?
        - i. Yes. ... R053CY015SD Thin Claypan
        - ii.. No. ... R053CY013SD Claypan
    - b. No: Is the area in a basin or closed depression with no outlet?
      - 1 Yes.
        - i. The site ponds water for 4 to 8 weeks in the spring or after heavy rain and has a high organic matter content. ... R053CY004SD Wet Meadow
        - ii.. The site ponds water greater than 8 weeks or until early summer and has a high organic matter content.
        - iii. The site ponds water year-round in most years and has a high organic matter content. ... R053CY037SD Deep Marsh
        - iv. All other closed depressions that pond water briefly after precipitation or during abnormally wet years. ... R053CY019SD Closed Depression
      - 2 No: Re-think your position and start again.