Major Land Resource Area 102D Prairie Coteau

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Ecological site keys

102D

- I. RUN-OFF Landscape Positions (upland, normally convex short slopes)
 - A. Is it organic? Yes See MLRA Key "Other Landscape Positions"
 - B. It it not Organic?
 - 1 Root restricting layer within 10 inches of soil surface? ... R102DY016SD Very Shallow
 - 2 Not as above
 - i. Root restricting layer within 10-20 inches of soil surface?
 - a. Gravel (greater than 15% by volume) ... R102DY014SD Shallow Gravel
 - b. Bedrock (siltstone, sandstone, mudstone, etc) ... R102DY010SD Loamy
 - ii. Not as above.
 - a. Soil effervesce with acid (10% HCL) at or near (within 6 inches) the surface? ... R102DY012SD Thin Upland
 - b. Not as above. See MLRA Key "Normal Landscape Positions"
- II. NORMAL Landscape Positions (Upland, slopes normally linear, except sandy/sands sites can have complex slopes)
 - A. Is it Organic? Yes See MLRA Key "Other Landscape Positions"
 - B. Is it not Organic?
 - 1 Are there visible salts (including sodium and gypsum) within 16 inches or a claypan of the surface? Is there a claypan (columnar structure) within 16 inches of the surface? Yes See MLRA Key "Other Landscape Positions"
 - 2 Not as above.
 - i. Is the surface and subsoil texture Clay, Silty Clay (>40% clay) or Loamy Surface with Clayey subsoil the surface and subsoil texture? ... R102DY011SD Clayey
 - ii. Not as above
 - a. Is the surface and subsoil texture Loam, Silt loam, Silty clay loam, Clay loam, Sandy clay loam, very fine sandy loam? ... R102DY010SD Loamy
 - b. Not as above
 - 1) Is the surface and subsoil texture Sandy loam, Fine sandy loam, Loamy very fine sand? \dots R102DY009SD Sandy
 - 2) Not as above Not Written at this time.
- III. RUN-IN Landscape Positions (Floodplain, Drainageways, etc., except depressions)
 - A. Is it Organic? Yes See MLRA Key "Other Landscape Positions"
 - B. Is it not Organic?
 - 1 Evidence of a permanent water table within 0-2 feet of the surface and the site dominated by hydrophytes?
 - i. Visible salts (including sodium and gypsum) within 16 inches of the surface? ... R102DY007SD Saline Lowland

- ii. Not as above. ... R102DY002SD Linear Meadow
- 2 Not as above.
 - i. Evidence of a permanent water table within 2 to 5 feet of the surface?
 - a. Soil effervesce with acid at or near the surface or have visible salt (including sodium and gypsum) crystals within 6 inches?
 - 1) Salts within 16 inches. ... R102DY036SD Saline Subirrigated
 - 2) Not as above. ... R102DY006SD Limy Subirrigated
 - b. Not as above. ... R102DY003SD Subirrigated
 - ii. No permanent water table within 2 to 5 feet of the surface.
 - a. Water flow into and over/through the site?
 - 1) Does it have a flooding frequency? ... R102DY040SD Loamy Floodplain
 - 2) No flooding frequency. ... R102DY040SD Loamy Floodplain
 - b. Not as above. See MLRA Key "Other Landscape Positions"
- IV. OTHER Landscape Positions (Basin, Depression, Run-off and/or Run-in)
 - A. It is Organic? Not Written at this time.
 - B. Is it not Organic?
 - 1 Does the soil have a claypan (columnar structure) within 16 inches?
 - i. Is the claypan within 6 inches of the surface? ... R102DY015SD Thin Claypan
 - ii. Claypan between 6 to 16 inches in depth. ... R102DY013SD Claypan
 - 2 Not as Above.
 - i. Area in a basin or closed depression with no outlet?
 - a. Site pond water for 4 to 8 weeks in the spring or after heavy rain and have high organic matter content? ... R102DY004SD Wet Meadow
 - b. Not as above.
 - 1) Site pond water until early summer and have high organic matter content? ... R102DY001SD Shallow Marsh
 - 2) Not as Above.
 - a) Site pond water year round in most years and have high organic matter content? ... R102DY037SD Deep Marsh
 - b) Not as above Not written at this time.
 - ii. Area not in a basin or closed depression with no outlet? Re-think your position and start again!