

# 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. Is 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? ... 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. Organic Soil**

**1 Does the soil effervesce with acid (10% HCL) at or near (within 6 inches) of the surface?**

i. Yes ... R102DY038SD – Calcareous Fen

ii. No-- Re-think your position or soil type and start again!

**B. Mineral Soil**

**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!**