

Major Land Resource Area 102B Till Plains

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Ecological site keys

MLRA 102B Ecological Site Key

I. RUN-OFF LANDSCAPE POSITIONS

A. Dig hole to a depth of 20 inches Is there a root restricting layer within 10 inches of soil surface?

yes Very Shallow ... R102BY016SD – Very Shallow

No Is there a root restricting layer within 10-20 inches of soil surface?

No Does the soil effervesce with acid (10% HCL) at or near (within 6 inches) the surface?

yes Thin Upland ... R102BY012SD – Thin Upland

No See “Normal Landscape Positions”

yes Gravel ? (greater than 15% by volume)

Yes Shallow To Gravel ... R102BY014SD – Shallow To Gravel

II. Normal Landscape Positions

A. Dig hole to a depth of 20 inches Are there visible salts (including sodium & gypsum) within 16 inches or a claypan of the surface?

Yes Is there a claypan (columnar structure) within 16 inches of the surface? See "OTHER LANDSCAPE POSITIONS".

No What is the surface and subsoil texture?

i. Clay, Silty Clay (>40% clay) or Loamy Surface with Clayey Subsoil?

Clayey [Criteria] ... R102BY011SD – Clayey

ii. Loam, Silt Loam, Silty Clay Loam, Clay Loam, Sandy Clay Loam, Very Fine Sandy Loam

Loamy ... R102BY010SD – Loamy

iii. Sandy Loam, Fine Sandy Loam, Loamy Very Fine Sand.

Sandy [Criteria] ... R102BY009SD – Sandy

iv. Sand, Loamy Sand, Loamy Fine Sand.

Sands [Criteria] ... R102BY008SD – Sands

III. RUN-IN LANDSCAPE POSITIONS (Floodplain, Drainageways, etc., except depressions) Observe the soil profile to a depth to 60 inches.

A. Is there evidence of a permanent1 water table within 0-2 feet of the surface and the site dominated by hydrophytes?

Yes Are there visible salts (including sodium & gypsum) within 16 inches of the surface?

Yes Saline lowland ... R102BY007SD – Saline Lowland

No [Criteria] ... R102BY002SD – Linear Meadow

No Is there evidence of a permanent water table within 2 to 5 feet of the surface?

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

NO Subirrigated ... R102BY003SD – Subirrigated

Yes Are there visible salts (including sodium & gypsum) within 16 inches of the surface?

yes Saline Subirrigated ...

No Limy Subirrigated ... R102BY006SD – Limy Subirrigated

NO Does water flow into and over/through the site?

NO See “Other Landscape Positions”

Yes Does it have a flooding frequency?

**Yes Loam, Silt Loam, Silty Clay Loam, Clay Loam, Sandy Clay Loam ... R102BY040SD – Loamy
Floodplain**

**NO Loam, Silt Loam, Silty Clay Loam, Clay Loam, Sandy Clay Loam, Very Fine Sandy Loam ...
R102BY020SD – Loamy Overflow**

**IV. OTHER LANDSCAPE POSITIONS (Basin, Depression, Run-off and/or Run-in) Does the soil have a claypan (columnar structure) within
16 inches?**

Yes Is it in a closed depression?

Yes Closed Depression ... R102BY019SD – Closed Depression

NO Is the area in a basin or closed depression with no outlet?

No Re-think your position and start again!

Yes Does the site pond water for 4 to 8 weeks in the spring or after heavy rain and have high organic matter content?

Yes Wet Meadow ... R102BY004SD – Wet Meadow

NO Does the site pond water greater than 8 weeks or until early summer and have high organic matter content?

Yes Shallow Marsh ... R102BY001SD – Shallow Marsh

NO Does the site pond water year round in most years and have high organic matter content?

Yes Deep Marsh ... R102BY037SD – Deep Marsh

**No All other closed depressions or basins that pond water briefly after snowmelt or heavy rain or during abnormally
wet years. ... R102BY019SD – Closed Depression**