

Major Land Resource Area 052X

Brown Glaciated Plains

Accessed: 05/06/2024

Ecological site keys

MLRA 52X Legacy RRU Central Key

I. Site receives additional effective moisture¹

A. Soil saline (EC > 4 within surface 4")

1 Seasonal high water table $\geq 40"$ from ground surface; salt tolerant plants dominate site; site regularly receives more than normal soil moisture because of run-in or stream overflow ... R052XC209MT – Saline Overflow (SOv) 10-14" p.z.

B. Site not as above

1 Seasonal high water table $\geq 40"$ from ground surface; site regularly receives more than normal soil moisture because of run-in or stream overflow ... R052XC207MT – Overflow (Ov) 10-14" p.z.

2 Seasonal high water table < 40" from ground surface ... R052XC218MT – Subirrigated (Sb) 10-14" p.z.

II. Site does not receive additional effective moisture¹

A. Soil saline or saline-sodic within surface 20" or soils with natric or relic natric horizons.

1 No columnar structure; site dominated by salt tolerant plants – Saline Upland (SU) ... R052XC210MT – Saline Upland (SU) 10-14" p.z.

2 Columnar structure present, abrupt root or water restrictive clay layer present within 8" of soil surface ... R052XC204MT – Claypan (Cp) 10-14" p.z.

B. Site not as above

2 Soils moderately deep, deep, or very deep ($\geq 20"$ deep to bedrock, lithic, or paralithic root restrictive layer)

i. Soil not skeletal within 20" of soil surface (averages < 35% rock fragments in the 10"-20" layer)

a. Slope < 15%

2) Clay content is < 32% in surface mineral 4"

a) Coarse sandy loam to fine sandy loam texture within surface mineral 4" ... R052XC212MT – Sandy (Sy) 10-14" p.z.

b) Site not as above ... R052XC217MT – Silty (Si) 10-14" p.z.

3) Clay content is > 32% in surface mineral 4" of mineral soil (ribbon > 2" long)

a) Soil 32% to 45% clay within surface mineral 4" ... R052XC205MT – Clayey (Cy) 10-14" p.z.

b) Soil > 45% clay within surface mineral 2" ... R052XC206MT – Dense Clay (DC) 10-14" p.z.

b. Slope $\geq 15\%$

2) Clay content is < 32% (ribbon < 2" long) in surface mineral 4" ... R052XC223MT – Silty-Steep (SiStp) 10-14" p.z.

ii. Soil skeletal to within 20" of soil surface (averages > 35% rock fragments in the 10"-20" layer)

a. Sandy-skeletal within 10-20" of soil surface & typically consists of gravels and/or cobbles ... R052XC216MT – Shallow to Gravel (SwGr) 10-14" p.z.

1 Soils shallow to very shallow (< 20" deep to bedrock, lithic, or paralithic root restrictive layer)

i. Clay content < 32% in surface mineral 4" (able to make a ribbon < 2" long) ... R052XC214MT – Shallow (Sw) 10-14" p.z.

ii. Clay content > 32% in surface mineral 4" (ribbon length > 2" long) ... R052XC215MT – Shallow Clay

(SwC) 10-14" p.z.