

Major Land Resource Area 046X

Northern and Central Rocky Mountain Foothills

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Ecological site keys

MLRA 46 LRU S

I. Site receives additional effective moisture

A. Seasonal high water table > 40" from ground surface; site regularly receives more than normal soil moisture because of run-in or stream overflow ... R046XS109MT – Overflow (Ov) RRU 46-S 13-19 PZ

E. Water table less than 40 inches below soil surface

1 Site located in flood plain. Seasonal high water table 24" to 40" ... R046XS118MT – Riparian Subirrigated (RSb) RRU 46-S 13-19 PZ

2 Site not located in flood plain

i. Seasonal water table < 12" ... R046XS107MT – Wet Meadow (WM) RRU 46-S 15-19 PZ

ii. Seasonal high water table 24" to 40" ... R046XS108MT – Subirrigated (Sb) RRU 46-S 15-19 PZ

II. Site does not receive additional effective moisture

A. Soils are very shallow or shallow

1 Soil very shallow (< 10" deep to bedrock, lithic, or paralithic root restrictive layer) ... R046XS115MT – Very Shallow (VSw) RRU 46-S 13-19 PZ

2 Soil shallow (10" – 20" deep to bedrock, lithic, or paralithic root restrictive layer)

i. Soil texture within surface mineral 4" is typified by loam, clay loam, or silt loam R046XS114MT – Shallow (Sw) RRU 46-S 13-19 PZ

ii. Clay content > 32% in surface mineral 4" (ribbon length > 2" long) ... R046XS619MT – Shallow Clay (SwC) RRU 46-S 13-16 PZ

B. Soils moderately deep, deep, or very deep (≥ 20" deep to bedrock, lithic, or paralithic root restrictive layer)

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

iii. Soil loamy-skeletal or clayey-skeletal. Strongly or violently effervescent within top 4", lime concentration increasing with depth. (typically limestone parent material) ... R046XS117MT – Limy-Droughty (LyDr) RRU 46-S 13-19 PZ

iv. Site Sandy Skeletal with surface 20 inches

a. Sandy-skeletal within 10" of soil surface ... R046XS116MT – Gravelly (Gr) RRU 46-S 13-19 PZ

b. Sandy-skeletal within 10-20" of soil surface & typically consists of gravels and/or cobbles. Not strongly or violently effervescent within surface mineral 4" ... R046XS113MT – Shallow to Gravel (SwGr) RRU 46-S 13-19 PZ

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

i. Strongly or violently effervescent in surface mineral 4", lime concentration increasing with depth. (typically limestone parent material) ... R046XS144MT – Limy (Ly) RRU 46-S 13-19 PZ

ii. Not strongly or violently effervescent in surface mineral 4"

c. Slope <15%

1) Coarse sandy loam to fine sandy loam texture within surface mineral 4" ... R046XS106MT – Sandy (Sy) RRU 46-S 15-19 PZ

2) Soil NOT coarse sandy loam to fine sandy loam texture

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

R046XS105MT – Clayey (Cy) RRU 46-S 13-19 PZ

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

(1) Stones and/or boulders cover 3-15% surface area (15-30% cover measured by step transect) ... R046XS142MT – Stony (St) RRU 46-S 13-19 PZ

(2) Clay content is < 32% in surface mineral 4". Argillic horizon, if present, has < 35% clay of mineral soil (ribbon < 2" long) ... R046XS104MT – Silty (Si) RRU 46-S 13-19 PZ

d. Slope $\geq 15\%$

1) Site without mollic epipedon. Soil textures variable of sedimentary origins ... R046XS119MT – Thin Breaks (TB) RRU 46-S 13-19 PZ