

Major Land Resource Area 025X

Owyhee High Plateau

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Ecological site keys

Dissected High Lava Plateau

II. Soil characterized by a mollic epipedon

A. Soil 50-100cm deep

1 Depth to clay increase less than 15cm from soil surface

- i. Soil has mollic epipedon 25 cms thick or less (value and chroma 3 or less). ... R025XY018OR – SHALLOW CLAYPAN 13-16 PZ
- ii. Soil has mollic epipedon greater than 25 cms thick (value and chroma 3 or less). ... R025XY032NV – CLAYPAN 16+ P.Z.

2 Depth to clay increase greater than 15cm from the soil surface

- i. Soil characterized by a calcic horizon below 50cm ... R025XY043ID – LOAMY 11-13
- ii. soil characterized by a mollic epipedon greater than 40cm thick and volcanic glass greater than 5 percent of sand and coarse silt fraction in A and Bt1 (vitritorandic feature). Calcic horizon absent.
 - a. Slopes are less than 15 percent
 - 1) Restriction kind is typically paralithic bedrock ... R025XY065OR – SHRUBBY LOAM 13-16 PZ
 - 2) Restriction kind is typically lithic bedrock. ... R025XY014OR – LOAMY 13-16 PZ
 - b. Slopes are greater than 15 percent.
 - 1) Aspect is North. ... R025XY038OR – CLAYPAN NORTH SLOPES 11-13 PZ
 - 2) Aspect is South. ... R025XY028OR – SHRUBBY SOUTH SLOPES 13-16 PZ
- iii. Soil characterized by a mollic epipedon less than 50cm thick.
 - a. Soil is characterized by frigid temperature regime.
 - 1) Soil is characterized by a xeric moisture regime. ... R025XY024ID – LOAMY 12-16
 - 2) Soil is characterized by an aridic moisture regime. ... R025XY082NV – STONY LOAM 12-14 P.Z.
 - b. Soil is characterized by mesic temperature regime. ... R025XY003ID – LOAMY 12-16

B. Soil 100cm deep or greater

1 occurs on stream terraces, flood plains, inset fans and/or valley floors (seasonal water table present)

- i. seasonal high-water table with in 25 to 50cm from the soil surface ... R025XY046ID – MEADOW
- ii. seasonal high-water table within 50 to 150cm from soil surface ... R025XY039ID – DRY MEADOW

2 occurs on high stream terraces, hills and plateaus (seasonal water table absent)

- i. site is on stream terraces, escarpments, plateaus or mountains soils are characterized by mollic epipedon greater than 50cm thick
 - a. Soils are somewhat excessively to excessively drained. ... R025XY010UT – Riparian (Narrowleaf Cottonwood)
 - b. soils are somewhat poorly to well drained
 - 1) site is on stream terraces ... R025XY028ID – LOAMY BOTTOM 12-16
 - 2) site is on plateaus and mountains ... R025XY056NV – LOAMY 14-16 P.Z.
- ii. occurs on hills and plateaus, soils are characterized by a mollic epipedon 35-50cm thick

- a. slopes are greater than 30 percent ... R025XY008ID – NORTH SLOPE STONY 12-16
 - b. slopes are less than 30 percent ... R025XY011ID – LOAMY 13-16
- C. Soils less than 50cms deep.
 - 1 Precipitation is greater than 14 inches. ... R025XY004ID – SHALLOW STONY 12-16
 - 2 Precipitation is less than 14 inches. ... R025XY022NV – COBBLY CLAYPAN 8-12 P.Z.
- III. Soil characterized by an ochric epipedon
 - B. Soils are greater than 50cms deep.
 - 1 Soil is poorly or very poorly drained.
 - i. Soil temperature regime is frigid. ... R025XY035ID – CHURNING CLAY 12-16
 - ii. Soil temperature regime is mesic. ... R025XY069NV – SUBIRRIGATED CLAY BASIN
 - 2 Soil is well drained. Soil has less than 35 percent clay in the particle size control section.
 - i. Soils are 100-150cms deep.
 - a. soils have a high amount of volcanic glass; greater than 80 percent in all horizons. ... R025XY038ID – ASHY SOUTH SLOPE 10-16
 - b. soils have less than 80 percent volcanic glass in all horizons. ... R025XY006ID – SOUTH SLOPE STONY 10-13
 - ii. Soils are 50 to 100 cms deep. ... R025XY041ID – GRAVELLY 10-12
 - 3 Soil is well drained. Soil has more than 35 percent clay in the particle size control section. ... R025XY014ID – CLAYEY 12-16
 - C. Soil shallow or very shallow (less than 50cm deep)
 - 1 soil less than 20cm deep (very shallow), less than 35% clay particle size control section ... R025XY044ID – VERY SHALLOW STONY LOAM 10-14
 - 2 Soil 20 to 50cm deep (shallow)
 - i. Soil characterized by less than 35 percent rock fragments by volume (site dominated by early sagebrush) ... R025XY014ID – CLAYEY 12-16
 - ii. Soil characterized by greater than 35 percent rock fragments by volume (skeletal in the particle size control section)
 - a. Maximum clay content is typically 50 or less
 - 1) Surface texture is typically extremely rocky. ... R025XY084NV – SCABLAND 10-14 P.Z.
 - 2) surface texture is typically less than extremely rocky. ... R025XY010ID – CLAYPAN 12-16
 - b. Maximum clay content is typically greater than 50. ... R025XY063OR – SKELETAL CLAYPAN 11+ PZ
 - iii. Soil characterized by a calcic horizon or relatively high sodium absorption rate values (2 to 10 or greater). ... R025XY040ID – VERY SHALLOW STONY 8-12