

# Major Land Resource Area 025X

## Owyhee High Plateau

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### Ecological site keys

#### Dissected High Lava Plateau

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#### 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