Major Land Resource Area 025X Owyhee High Plateau

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Ecological site keys

Piedmont slope (Upper Humboldt Plains)

- I. Soil characterized by a mollic epipedon.
 - A. soil depth is less than 50 cm (shallow).
 - 2 moisture class xeric is bordering on (subclass) aridic. ... R025XY315UT Upland Shallow Gravelly Loam (Thurber Needlegrass)
 - 3 Moisture class and subclass are both xeric.
 - ii. Soil at this site is lacking an O horizon (plant material) on the surface. ... R025XY007NV GRAVELLY LOAM 12-16 P.Z.
 - i. Soil at this site has an Oi horizon on the surface (intermediately decomposed plant material).
 - a. Site is typically below elevations of 8000 feet. ... R025XY031NV STONY MAHOGANY SAVANNA
 - b. Site is typically at elevations greater than 8000 feet. ... R025XY071NV MAHOGANY SAVANNA 14-16 P.Z.
 - 4 Soil moisture class is aridic bordering on xeric (moisture subclass). ... R025XY046NV FRACTURED STONY LOAM 14+ P.Z.
 - B. soil greater than 100cm deep (deep to very deep)
 - 1 Mollic epipedon less than 50cm thick, calcareous parent material
 - i. Soil characterized by greater than 35% rock fragments in the Particle Size Control Section.
 - a. Soil is characterized by less than 35% clay in the particle size control section.
 - 1) This soil at this site has an Oi and Oe horizon (slightly and moderately decomposed plant material). ... R025XY030NV MAHOGANY THICKET
 - 2) This soil of this site lacks significant plant material on the surface.
 - a) Calcium Carbonates percentage is 15 percent or less. ... R025XY036ID SOUTH SLOPE LOAMY 12-16
 - b) Calcium Carbonate percentage is greater than 15. ... R025XY318UT Upland Stony Loam (Black Sagebrush)
 - b. Soil is characterized with more than 35% clay in the particle size control section. ... R025XY320UT Upland Stony Clay (Low Sagebrush)
 - ii. Soil is characterized by less than 35% rock fragments in the Particle Size Control Section. ... R025XY310UT Upland Loam (Basin Big Sagebrush)
 - 2 Mollic epipedon greater than 50cm thick.
 - i. Soil well drained, not characterized by a seasonal high water table.
 - a. Site is on stream terraces, flood plains or drainageways. ... R025XY003NV LOAMY BOTTOM 8-14 P.Z.
 - b. Site is on mountain slopes, hillslopes and escarpments.
 - 1) Site is in a water receiving postion on the landscape.
 - a) Soil typically has greater than 35 percent clay in the particle size control section. ... R025XY047NV CLAY SEEP

- b) Soil typically has less than 35 percent clay in the particle size control section. ... $R025XY001ID ASPEN\ THICKET$
- 2) Site is on a water shedding position on the landscape.
 - a) Mean Annual Precipitation is typically 16 inches or less. Site is exclusive to north slopes. ... R025XY023ID NORTH SLOPE LOAMY 16-22
 - b) Mean annual precipitation is typically greater than 16 inches. Site is on all aspects.
 - (1) Maximum clay content is typically below 30 percent.
 - (a) Rock fragments in the particle size control section are less than 35 percent. ... R025XY022ID LOAMY 16-22
 - (b) Rock fragments in the particle size control section are greater than 35 percent. ... R025XY056NV LOAMY 14-16 P.Z.
 - (2) Maximum clay content is typically greater than 30 percent but less than 35 percent. ... R025XY029NV DEEP LOAMY 14+ P.Z.
- ii. Soil poorly drained, characterized by a seasonal high water table within 150cm of the soil surface.
 - a. Seasonal high-water table with 15 to 60cm from the soil surface. Willow is significant part of the plant community. ... R025XY001NV MOIST FLOODPLAIN
 - b. Seasonal high-water table within 15 to 60cm from the soil surface. Plant community dominated by grass/grass-likes. Willow is not a significant part of the plant community. ... R025XY005NV WET MEADOW
 - c. Seasonal high-water table within 50 to 150cm from the soil surface. Plant community dominated by grass/grass-likes. ... R025XY006NV DRY MEADOW
- C. The soil depth is 50 to 100 cm.
 - 1 Depth of mollic epipedon is from surface to less than 50 cm. Mean Annual Precipitation is 12 inches or less.
 - i. Site is on north aspects only. ... R025XY034OR SHRUBBY NORTH SLOPES 13-16 PZ
 - ii. Site is on all aspects.
 - a. Soil typically has 5 or less percent rocks on the surface. ... R025XY064OR SHRUBBY SHALLOW CLAYPAN 13-16 PZ
 - b. Soil typically has more than 5 percent rocks on the surface. ... R025XY014NV LOAMY 10-12 P 7
 - 2 Depth of mollic epipedon is from surface to near 50 cm or greater. Mean Annual Precipitation is typically 12 inches or more.
 - ii. Mean Annual Precipitation is typically less than 20 inches. Available Water Holding Capacity (AWC) is typically greater than 2 inches. ... R025XY027NV LOAMY 12-14 P.Z.
 - iii. Mean Annual Precipitation is typically greater than 20 inches. ... R025XY030ID MOUNTAIN BRUSH 18-22
- II. Soil characterized by an ochric epipedon
 - A. restrictive layer less than 50cm from the soil surface (shallow rooting depth)
 - 1 less than 18 percent clay in the PSCS
 - i. soil vitrandic, characterized by greater than 15 percent ash through the soil profile or ashy soil textures throughout the soil profile ... R025XY007ID ASH 10-14
 - ii. Soil not vitrandic, less than 15% ash throughout the soil profile. Carbonates disseminated and soil effervescent throughout the soil profile. ... R025XY025NV CHALKY KNOLL
 - 2 greater than 18 percent clay in the particle size control section
 - i. 18 to 27% clay in the particle size control section
 - a. greater that 35% rock fragments, by volume, throughout the soil profile (soil skeletal), subsurface horizon cemented by silica (duripan) present between 36-50cm ... R025XY085NV Juniper Savanna
 - b. subsurface horizon cemented by silica (duripan) present greater than 50cm from the soil surface,

- less than 35% rock fragments, by volume, throughout the soil profile, ... R025XY014NV LOAMY 10-12 P.Z.
- ii. greater than 27 percent clay in the particle size control section
 - a. between 27 to 35 percent clay particle size control section ... R025XY021NV SHALLOW LOAM 8-12 P.Z.
 - b. greater than 35 percent clay in the particle size control section ... R025XY018NV CLAYPAN 10-12 P.Z.
- B. restrictive layer between 50 to 100 cm from the soil surface (soil moderately deep)
 - 1 Soil temperature regime is typically mesic.
 - i. Soil is characterized by an ashy modifier.
 - a. The texture of the surface horizon is loamy fine sand. ... R025XY045NV ASHY LOAM 8-10 P.Z.
 - b. The texture of the surface horizon is sandy loam. ... R025XY066NV ASHY LOAM 10-12 P.Z.
 - ii. Soil is not characterized by an ashy modifier. ... R025XY322UT Upland Juniper Savanna (Utah Juniper)
 - 2 Soil temperature regime is typically frigid.
 - i. Soil parent material is alluvium. ... R025XY016ID SHALLOW CALCAREOUS LOAM 10-16
 - ii. Soil parent material is residuum derived from tuffaceous rocks. ... R025XY013NV CHURNING CLAY 8-12 P.Z.
- C. restrictive layer greater than 100 cm from the soil surface (soil deep)
 - 1 less than 28 percent clay in the particles size control section. site occurs in run-on landscape position.
 - i. Soil is well drained. ... R025XY070NV LOAMY FAN 8-10 P.Z.
 - ii. Soil is somewhat poorly drained. ... R025XY062NV STREAM TERRACE
 - 2 particle size control section has 28 to 35 percent clay. Site occurs in run-off landscape position.
 - i. duric (subsurface horizon weakly to strongly cemented by silica) feature present between 50 to 100cm ... R025XY019NV LOAMY 8-10 P.Z.
 - ii. Duric feature absent ... R025XY015NV SOUTH SLOPE 8-12 P.Z.
 - 3 Soil of this site has greater than 35 percent clay.
 - i. Soil drainage class is poorly or very poorly drained. ... R025XY048NV CLAY BASIN
 - ii. Soil is well drained. ... R025XY050NV STONY BOTTOM
- III. Soil has an umbric epipedon. ... R025XY037ID CEANOTHUS THICKET 16-24