

Major Land Resource Area 010X

Central Rocky and Blue Mountain Foothills

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Ecological site keys

John Day Sediments LRU

I Soil has an abrupt textural change within 10 inches of the surface (well-developed claypan) ... R010XB024OR – JD Warm Ashy Claypan 9-12 PZ

II Not as above

A Soil is very shallow over highly fractured bedrock, interspersed with areas of rock outcrop

1 Soil moisture regime is aridic ... R010XB057OR – JD Mahogany Rockland 9-12 PZ

2 Soil moisture regime is xeric ... R010XB058OR – JD Mahogany Rockland 12-16 PZ

B Not as above

1 Sites occurring on north aspect slopes and soil temperature regime is mesic

i. Soil moisture regime is aridic

a. Soils are very shallow ... R010XB065OR – JD Droughty Clayey North 9-12 PZ

b. Soils are shallow ... R010XB035OR – JD Shallow North 9-12 PZ

c. Soils are moderately deep to deep ... R010XB064OR – JD North 9-12 PZ

ii. Soil moisture regime is xeric

a. Soils are shallow ... R010XB033OR – JD Shallow North 12-16 PZ

b. Soils are moderately deep to deep ... R010XB070OR – JD North 12-16 PZ

2 Not as above

i. Sites occurring on south aspect slopes and soil temperature regime is mesic

a. Soil moisture regime is aridic

1 Soils are shallow

i) Soils have greater than 35 percent clay content ... R010XB051OR – JD Shallow South 9-12 PZ

ii) Soils have less than 35 percent clay content ... R010XB052OR – JD Droughty Shallow South 9-12 PZ

2 Soils are moderately deep to deep

i) Soils are skeletal ... R010XB041OR – JD Clayey South 9-12 PZ

ii) Soils are not skeletal

a) Surface texture is a very cobbly clay loam over clay subsoils ... R010XB043OR – JD Droughty Clayey South 9-12 PZ

b) Surface texture is a loam or gravelly loam over clay subsoils ... R010XB044OR – JD Droughty South 9-12 PZ

b. Soil moisture regime is xeric

1 Soils are shallow ... R010XB047OR – JD Shallow South 12-16 PZ

2 Soils are moderately deep to deep

i) Surface soils have a rock fragment volume below 35 percent

a) Sites predominately occur above 3500 feet. Soils are loamy with surface shale volume between fifteen and thirty-five percent. Rock fragment volume typically increases with

- depth ... R010XB046OR – JD Shrubby Mountain South 12-16 PZ
- b) Sites predominately occur below 4000 feet. Soil surface textures are cobbly clay loams ... R010XB045OR – JD Clayey South 12-16 PZ
- ii) Surface soils have a total cobble volume between 60 and 90 percent ... R010XB048OR – JD Loamy South 12-16 PZ
- ii. Not as above or sites that are not influenced by aspect
 - a. Soil temperature regime is mesic
 - 1 Soil moisture regime is aridic
 - i) Soils are shallow ... R010XB023OR – JD Shallow 9-12 PZ
 - ii) Soils are moderately deep to deep
 - a) Soils contain greater than 35 percent clay
 - 1) Soil surface textures are clays with high shrink-swell potential ... R010XB019OR – JD Gumbo 9-12 PZ
 - 2) Soils have higher fragment amounts. Surface textures are stony clay loam to loam ... R010XB022OR – JD Clayey 9-12 PZ
 - b) Soils contain less than thirty-five percent clay
 - 1) Surface soil textures are fine to coarse sandy loams. Subsoils are often gravelly to very gravelly ... R010XB025OR – JD Sandy Loam 9-12 PZ
 - 2) Surface soil textures are loams sometimes with an ash component ... R010XB034OR – JD Loamy 9-12 PZ
 - 2 Soil moisture regime is xeric
 - i) Soils are shallow ... R010XB031OR – JD Shallow 12-16 PZ
 - ii) Soils are moderately deep to deep
 - a) Surface textures are silt loams
 - 1) Surface texture is most often a silt loam with no ashy textures. In the reference state, antelope bitterbrush is the dominant shrub and Idaho fescue is the dominant grass ... R010XB013OR – JD Shrubby Loam 12-16 PZ
 - 2) Surface texture is most often a loam sometimes with an ash influence. In the reference state, basin big sagebrush is the dominant shrub and bluebunch wheatgrass is the dominant grass ... R010XB030OR – JD Loamy 12-16 PZ
 - b) Surface textures are cobbly to stony loams. Subsurface soils are very cobbly to very stony ... R010XB027OR – JD Clayey 12-16 PZ
 - b. Soil temperature regime is frigid. Soil moisture regime is xeric ... R010XB083OR – JD Shrubby Shallow 12-16 PZ