

Major Land Resource Area 023X

Malheur High Plateau

Accessed: 05/10/2025

Ecological site group keys

Key to Group Modal Sites

I. Site subject to Ponding or Flooding

B. Site is not sodic

1 Soils are clayey ... R023XY912NV – Seasonally Flooded Closed Clay Basins

2 Soils are loamy ... R023XY916NV – Seasonally Flooded Basin Wildrye

A. Site has sodic soils properties ... R023XY924CA – Lake Basins and Terraces with Greasewood and Saltgrass

II. Site does not pond or flood

A. Site on dune landform ... R023XY914OR – Stabilized Dunes

B. Landform other than dunes

1 Soil surface is clayey

i. MAP $\leq 10''$... R023XY910NV – Very Shallow Mesic Plateaus Low Production Wyoming and Lahontan Sagebrush sites with Sparse Juniper

ii. MAP $> 10''$

a. Soil Temperature Regime Frigid. Frost Free Days per Year < 80 ... R023XY902OR – Shallow and Moderately Deep > 12 PZ Low and Lahontan sagebrush and Idaho fescue

b. Soils warmer than frigid.

1) Soils extremely reactive and may have visible concentrations of CaCO_3 R023XY915NV – Clayey Plateaus 10-12 PZ Sagebrush with Rhizomatous Grass

2) Soils weakly reactive or less. ... R023XY904NV – Cobbly Moderately Deep Clay 10-14 PZ Low or Lahontan Sagebrush and Sandberg bluegrass

2 Surface soils are not clayey

i. Sites are tree dominated

a. Elevation $> 7000'$... F023XY923NV – Cold North Slope Quaking Aspen

b. Elevations $< 7000'$

1) Soils Clayey at PCS ... F023XY919NV – Plateau Rims 12-16" PZ Western Juniper with Low Sagebrush and Idaho Fescue

2) Soils loamy or ashy

a) Frost free days per year ≥ 100 ... R023XY918NV – Mountain Slope 10-12 PZ Utah Juniper with Thurber's Needlegrass and Sagebrush.

b) Frost free days < 100

(1) Soils very shallow (depth $\leq 12''$) ... F023XY920NV – Mountain Slopes 10-14 PZ Juniper and Mountain Big Sagebrush

(2) Soils $> 12''$ deep. ... R023XY917NV – Mountain Slope 16-20 PZ Mahogany

ii. Sites are shrub or grass dominated

b. MAP $\leq 10''$

1) Soil texture (PCS) clayey ... R023XY901NV – Shallow and Moderately Deep $< 12''$ PZ Low and Lahontan sagebrush and bluebunch wheatgrass/Thurber's needlegrass

2) Texture (PCS) ashy or loamy ... R023XY909OR – Clayey Mesic Plateaus 8-14 PZ Wyoming Big Sagebrush and Thurber's Needlegrass

a. [Criteria]MAP >10"

1) Soils is shallow to root restrictive layer

a) Soils Aridisols ... R023XY913NV – Shallow Rocky 8-14 PZ Black Sagebrush

b) Soils Molisols ... R023XY901NV – Shallow and Moderately Deep <12" PZ Low and Lahontan sagebrush and bluebunch wheatgrass/Thurber's needlegrass

2) Soil is moderately deep or deeper

a) Site is on south aspect of plateau landscapes ... R023XY905NV – Loamy 10-20 PZ Mountain Big Sagebrush and Bluebunch Wheatgrass

b) Site on other aspects or landforms

(1) Soils texture (PCS) loamy ... R023XY908NV – Loamy 14-18 PZ Mountain Big Sagebrush and Mountain Brome

(2) Soil textures (PCS) ashy

(a) Sites are on backslopes of ash flow landforms ... R023XY903NV – Ashy 10-14 PZ Lahontan Sagebrush

(b) Sites are on plateau summits and shoulders ... R023XY906NV – Ashy or Loamy Skeletal Moderately Deep 10-20 PZ High-Resilience Mountain Big Sagebrush and Idaho Fescue