

Major Land Resource Area 023X Malheur High Plateau

Accessed: 07/03/2026

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 ? 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 CaCO₃. ... R023XY915NV – Clayey Plateaus 10-12 PZ Sagebrush with Rhizomatous Grass

2) Soils weekly 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 ? 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 ? 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