

Soil Map—Malheur County, Oregon, Northeastern Part



EXHIBIT #

9

MAP LEGEND

Area of Interest (AOI)		Area of Interest (AOI)		Soils		Soil Map Unit Polygons		Soil Map Unit Lines		Soil Map Unit Points		Special Point Features		Water Features		Streams and Canals		Transportation		Rails		Interstate Highways		US Routes		Major Roads		Local Roads		Background		Aerial Photography
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MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Malheur County, Oregon, Northeastern Part
Survey Area Data: Version 21, Sep 10, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 9, 2020—Jul 5, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
21A	Nyssa silt loam, 0 to 2 percent slopes	1.2	33.8%
25D	Owyhee silt loam, 8 to 12 percent slopes	2.3	66.2%
Totals for Area of Interest		3.5	100.0%

Malheur County, Oregon, Northeastern Part

21A—Nyssa silt loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 23c0
Elevation: 2,100 to 2,600 feet
Mean annual precipitation: 9 to 11 inches
Mean annual air temperature: 50 to 54 degrees F
Frost-free period: 150 to 170 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Nyssa and similar soils: 59 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nyssa

Setting

Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Lacustrine deposits

Typical profile

H1 - 0 to 13 inches: silt loam
H2 - 13 to 25 inches: silt loam
H3 - 25 to 31 inches: cemented material
H4 - 31 to 60 inches: stratified silt loam to fine sandy loam to loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 20 to 40 inches to duripan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 6c
Hydrologic Soil Group: C
Ecological site: R011XY012OR - Silty 8-11 PZ

Hydric soil rating: No

Data Source Information

Soil Survey Area: Malheur County, Oregon, Northeastern Part
Survey Area Data: Version 21, Sep 10, 2025

Malheur County, Oregon, Northeastern Part

25D—Owyhee silt loam, 8 to 12 percent slopes

Map Unit Setting

National map unit symbol: 23ck
Elevation: 2,100 to 2,500 feet
Mean annual precipitation: 8 to 10 inches
Mean annual air temperature: 50 to 52 degrees F
Frost-free period: 150 to 170 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Owyhee and similar soils: 85 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Owyhee

Setting

Landform: Terraces
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Lacustrine deposits

Typical profile

H1 - 0 to 16 inches: silt loam
H2 - 16 to 38 inches: silt loam
H3 - 38 to 60 inches: very fine sandy loam

Properties and qualities

Slope: 8 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0
Available water supply, 0 to 60 inches: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6c
Hydrologic Soil Group: C
Ecological site: R011XY012OR - Silty 8-11 PZ

Hydric soil rating: No

Data Source Information

Soil Survey Area: Malheur County, Oregon, Northeastern Part
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