

# Soil Information for All Uses

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## Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

## Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

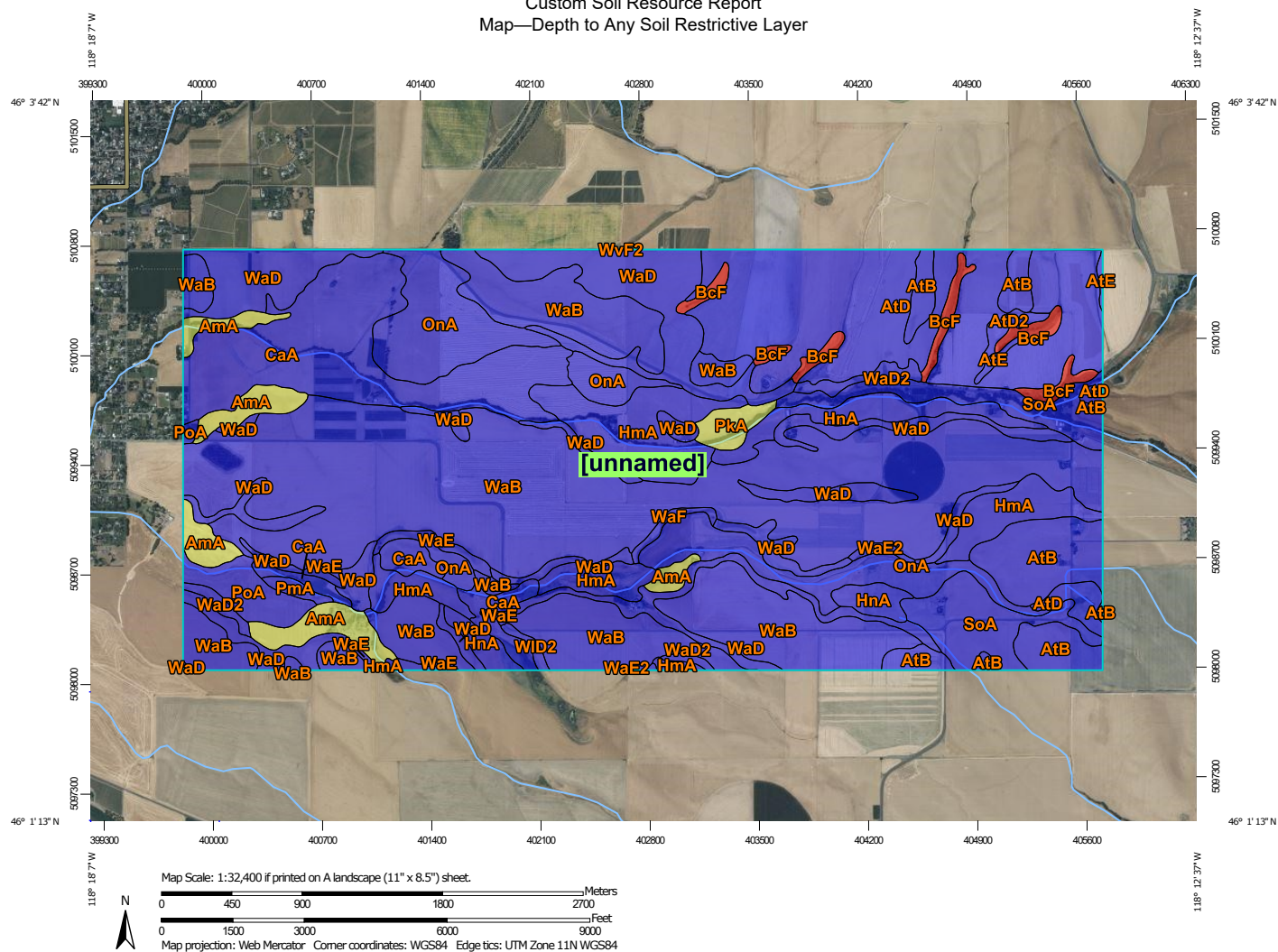
## Depth to Any Soil Restrictive Layer

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to any type of restrictive layer that is described for each map unit. If more than one type of restrictive layer is described for an individual soil type, the depth to the shallowest one is presented. If no restrictive layer is described in a map unit, it is represented by the "greater than 200" depth class.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Custom Soil Resource Report  
Map—Depth to Any Soil Restrictive Layer



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### MAP LEGEND

|                                                                                                                |                                                                                                              |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Area of Interest (AOI)</b>                                                                                  |  Not rated or not available |
|  Area of Interest (AOI)       |                                                                                                              |
| <b>Soils</b>                                                                                                   | <b>Water Features</b>                                                                                        |
| <b>Soil Rating Polygons</b>                                                                                    |  Streams and Canals         |
|  0 - 25                       | <b>Transportation</b>                                                                                        |
|  25 - 50                      |  Rails                      |
|  50 - 100                     |  Interstate Highways        |
|  100 - 150                    |  US Routes                  |
|  150 - 200                    |  Major Roads                |
|  > 200                        |  Local Roads                |
|  Not rated or not available   | <b>Background</b>                                                                                            |
| <b>Soil Rating Lines</b>                                                                                       |  Aerial Photography         |
|  0 - 25                     |                                                                                                              |
|  25 - 50                    |                                                                                                              |
|  50 - 100                   |                                                                                                              |
|  100 - 150                  |                                                                                                              |
|  150 - 200                  |                                                                                                              |
|  > 200                      |                                                                                                              |
|  Not rated or not available |                                                                                                              |
| <b>Soil Rating Points</b>                                                                                      |                                                                                                              |
|  0 - 25                     |                                                                                                              |
|  25 - 50                    |                                                                                                              |
|  50 - 100                   |                                                                                                              |
|  100 - 150                  |                                                                                                              |
|  150 - 200                  |                                                                                                              |
|  > 200                      |                                                                                                              |

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:31,700.

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: Walla Walla County Area, Washington  
Survey Area Data: Version 6, Aug 31, 2021

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

Date(s) aerial images were photographed: Jul 22, 2020—Jul 25, 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.

**Table—Depth to Any Soil Restrictive Layer**

| Map unit symbol | Map unit name                                                                | Rating (centimeters) | Acres in AOI | Percent of AOI |
|-----------------|------------------------------------------------------------------------------|----------------------|--------------|----------------|
| AmA             | Ahtanum silt loam, 0 to 3 percent slopes                                     | 86                   | 110.6        | 2.8%           |
| AtB             | Athena silt loam, 0 to 8 percent slopes                                      | >200                 | 173.2        | 4.4%           |
| AtD             | Athena silt loam, 8 to 30 percent slopes                                     | >200                 | 452.5        | 11.5%          |
| AtD2            | Athena silt loam, 8 to 30 percent slopes, eroded                             | >200                 | 10.5         | 0.3%           |
| AtE             | Athena silt loam, 30 to 45 percent slopes                                    | >200                 | 6.8          | 0.2%           |
| BcF             | Basalt rockland, steep                                                       | 0                    | 52.4         | 1.3%           |
| CaA             | Catherine silt loam, 0 to 3 percent slopes                                   | >200                 | 353.8        | 9.0%           |
| HmA             | Hermiston silt loam, 0 to 3 percent slopes                                   | >200                 | 231.2        | 5.9%           |
| HnA             | Hermiston very fine sandy loam, 0 to 3 percent slopes                        | >200                 | 95.9         | 2.4%           |
| OnA             | Onyx silt loam, 0 to 3 percent slopes                                        | >200                 | 264.0        | 6.7%           |
| PkA             | Patit Creek silt loam, 0 to 3 percent slopes                                 | 76                   | 23.1         | 0.6%           |
| PmA             | Pedigo silt loam, 0 to 3 percent slopes                                      | >200                 | 8.5          | 0.2%           |
| PoA             | Pedigo silt loam, overwashed, 0 to 3 percent slopes                          | >200                 | 48.4         | 1.2%           |
| SoA             | Snow silt loam, 0 to 3 percent slopes                                        | >200                 | 155.2        | 3.9%           |
| WaB             | Walla Walla silt loam, 0 to 8 percent slopes                                 | >200                 | 1,412.6      | 35.9%          |
| WaD             | Walla Walla silt loam, 8 to 30 percent slopes                                | >200                 | 460.9        | 11.7%          |
| WaD2            | Walla Walla silt loam, 8 to 30 percent slopes, eroded                        | >200                 | 27.2         | 0.7%           |
| WaE             | Walla Walla silt loam, 30 to 45 percent slopes                               | >200                 | 23.0         | 0.6%           |
| WaE2            | Walla Walla silt loam, 30 to 45 percent slopes, eroded                       | >200                 | 6.1          | 0.2%           |
| WaF             | Walla Walla silt loam, 45 to 60 percent slopes                               | >200                 | 8.0          | 0.2%           |
| WID2            | Walla Walla silt loam, lacustrine substratum, 8 to 30 percent slopes, eroded | >200                 | 5.5          | 0.1%           |

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| Map unit symbol                    | Map unit name                                             | Rating (centimeters) | Acres in AOI   | Percent of AOI |
|------------------------------------|-----------------------------------------------------------|----------------------|----------------|----------------|
| WvF2                               | Walvan ashy very fine sandy loam, 30 to 60 percent slopes | >200                 | 0.0            | 0.0%           |
| <b>Totals for Area of Interest</b> |                                                           |                      | <b>3,930.1</b> | <b>100.0%</b>  |

### Rating Options—Depth to Any Soil Restrictive Layer

*Units of Measure:* centimeters

*Aggregation Method:* Dominant Component

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Lower

*Interpret Nulls as Zero:* No

# References

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