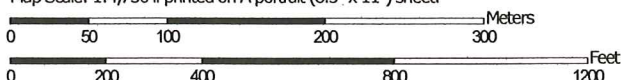


Soil Map—Whitman County, Washington
(Brown Farmland)



Soil Map may not be valid at this scale.

Map Scale: 1:4,750 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
54	Latah silt loam	13.1	15.6%
61	Naff-Garfield complex, 3 to 25 percent slopes	8.8	10.5%
65	Palouse silt loam, 7 to 25 percent slopes	17.7	21.1%
71	Palouse-Thatuna silt loams, 7 to 25 percent slopes	21.6	25.8%
104	Thatuna silt loam, 7 to 25 percent slopes	13.1	15.6%
111	Tilma silt loam, 7 to 25 percent slopes	9.6	11.4%
Totals for Area of Interest		83.8	100.0%

Brown Farmland

Classification descriptions of most prevalent soils Page 1 of 4

The east half of the northwest quarter of Section 36, Township 19 North, Range 45 East, W.M., Whitman County, Washington.

71—Palouse-Thatuna silt loams, 7 to 25 percent slopes

Map Unit Setting

- National map unit symbol: 29by
- Elevation: 1,600 to 4,500 feet
- Mean annual precipitation: 18 to 24 inches
- Mean annual air temperature: 45 to 50 degrees F
- Frost-free period: 110 to 160 days
- Farmland classification: Farmland of statewide importance

Map Unit Composition

- Palouse and similar soils: 50 percent
- Thatuna and similar soils: 45 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Palouse

Setting

- Landform: Hills
- Parent material: Loess and some ash

Typical profile

- H1 - 0 to 24 inches: silt loam
- H2 - 24 to 60 inches: silt loam

Properties and qualities

- Slope: 7 to 25 percent
- Depth to restrictive feature: More than 80 inches
- Natural drainage class: Well drained
- Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
- Depth to water table: More than 80 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Available water storage in profile: High (about 12.0 inches)

Interpretive groups

- Land capability classification (irrigated): None specified
- Land capability classification (nonirrigated): 4e
- Hydrologic Soil Group: B
- Hydric soil rating: No

Description of Thatuna

Setting

- Landform: Hills
- Parent material: Loess and ash

Typical profile

- H1 - 0 to 39 inches: silt loam
- H2 - 39 to 60 inches: silty clay loam

Properties and qualities

- Slope: 7 to 25 percent
- Depth to restrictive feature: More than 80 inches
- Natural drainage class: Moderately 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: About 35 to 47 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Available water storage in profile: High (about 12.0 inches)

Interpretive groups

- Land capability classification (irrigated): None specified
- Land capability classification (nonirrigated): 4e
- Hydrologic Soil Group: C
- Hydric soil rating: No

65—Palouse silt loam, 7 to 25 percent slopes

Map Unit Setting

- National map unit symbol: 29bq
- Elevation: 1,600 to 4,500 feet
- Mean annual precipitation: 18 to 24 inches
- Mean annual air temperature: 46 to 50 degrees F
- Frost-free period: 130 to 150 days
- Farmland classification: Farmland of statewide importance

Map Unit Composition

- Palouse and similar soils: 100 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Palouse

Setting

- Landform: Hills
- Parent material: Loess and some ash

Typical profile

- H1 - 0 to 24 inches: silt loam
- H2 - 24 to 60 inches: silt loam

Properties and qualities

- Slope: 7 to 25 percent
- Depth to restrictive feature: More than 80 inches
- Natural drainage class: Well drained
- Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
- Depth to water table: More than 80 inches

- Frequency of flooding: None
- Frequency of ponding: None
- Available water storage in profile: High (about 12.0 inches)

Interpretive groups

- Land capability classification (irrigated): None specified
- Land capability classification (nonirrigated): 4e
- Hydrologic Soil Group: B
- Hydric soil rating: No

54—Latah silt loam

Map Unit Setting

- National map unit symbol: 29bb
- Elevation: 1,800 to 3,200 feet
- Mean annual precipitation: 18 to 23 inches
- Mean annual air temperature: 46 to 48 degrees F
- Frost-free period: 100 to 135 days
- Farmland classification: Prime farmland if drained

Map Unit Composition

- Latah and similar soils: 100 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Latah

Setting

- Landform: Drainageways
- Parent material: Alluvium from loess and ash

Typical profile

- H1 - 0 to 19 inches: silt loam
- H2 - 19 to 30 inches: silt loam
- H3 - 30 to 60 inches: silty clay loam

Properties and qualities

- Slope: 0 to 3 percent
- Depth to restrictive feature: More than 80 inches
- Natural drainage class: Somewhat poorly drained
- Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
- Depth to water table: About 6 to 30 inches
- Frequency of flooding: Frequent
- Frequency of ponding: None
- Available water storage in profile: High (about 10.4 inches)

Interpretive groups

- Land capability classification (irrigated): None specified
- Land capability classification (nonirrigated): 4w
- Hydrologic Soil Group: C/D
- Ecological site: WET MEADOW 16-24 PZ (R009XY601WA)
- Hydric soil rating: No

104—Thatuna silt loam, 7 to 25 percent slopes

Map Unit Setting

- National map unit symbol: 2984
- Elevation: 1,800 to 3,200 feet
- Mean annual precipitation: 18 to 23 inches
- Mean annual air temperature: 45 to 50 degrees F
- Frost-free period: 110 to 160 days
- Farmland classification: Farmland of statewide importance

Map Unit Composition

- Thatuna and similar soils: 100 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Thatuna

Setting

- Landform: Hills
- Parent material: Loess and ash

Typical profile

- H1 - 0 to 39 inches: silt loam
- H2 - 39 to 60 inches: silty clay loam

Properties and qualities

- Slope: 7 to 25 percent
- Depth to restrictive feature: More than 80 inches
- Natural drainage class: Moderately 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: About 30 to 48 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Available water storage in profile: High (about 12.0 inches)

Interpretive groups

- Land capability classification (irrigated): None specified
- Land capability classification (nonirrigated): 4e
- Hydrologic Soil Group: C
- Hydric soil rating: No