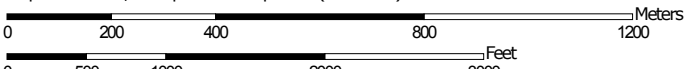


Soil Map—Weld County, Colorado, Southern Part
(WUERTZ 1201 PAD)



Map Scale: 1:14,500 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
10	Bankard sandy loam, 0 to 3 percent slopes, frequently flooded	0.8	0.1%
15	Colby loam, 1 to 3 percent slopes	0.2	0.0%
19	Colombo clay loam, 0 to 1 percent slopes	140.4	16.3%
23	Fort Collins loam, 0 to 1 percent slopes	1.2	0.1%
31	Kim loam, 0 to 1 percent slopes	21.8	2.5%
32	Kim loam, 1 to 3 percent slopes	14.6	1.7%
39	Nunn loam, 0 to 1 percent slopes	113.1	13.1%
41	Nunn clay loam, 0 to 1 percent slopes	235.6	27.3%
44	Olney loamy sand, 1 to 3 percent slopes	24.3	2.8%
46	Olney fine sandy loam, 0 to 1 percent slopes	101.2	11.7%
47	Olney fine sandy loam, 1 to 3 percent slopes	36.4	4.2%
51	Otero sandy loam, 1 to 3 percent slopes	0.1	0.0%
75	Vona sandy loam, 0 to 1 percent slopes	25.8	3.0%
78	Weld loam, 0 to 1 percent slopes	66.1	7.7%
79	Weld loam, 1 to 3 percent slopes	28.1	3.3%
81	Wiley-Colby complex, 0 to 1 percent slopes	14.4	1.7%
82	Wiley-Colby complex, 1 to 3 percent slopes	37.5	4.4%
Totals for Area of Interest		861.6	100.0%

Weld County, Colorado, Southern Part

46—Olney fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 362t

Elevation: 4,600 to 5,200 feet

Mean annual precipitation: 11 to 15 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 125 to 175 days

Farmland classification: Prime farmland if irrigated and the product of
I (soil erodibility) x C (climate factor) does not exceed 60

Map Unit Composition

Olney and similar soils: 85 percent

Minor components: 15 percent

*Estimates are based on observations, descriptions, and transects of
the mapunit.*

Description of Olney

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Mixed deposit outwash

Typical profile

H1 - 0 to 10 inches: fine sandy loam

H2 - 10 to 20 inches: sandy clay loam

H3 - 20 to 25 inches: sandy clay loam

H4 - 25 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.57 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0
to 2.0 mmhos/cm)

Available water storage in profile: Moderate (about 7.0 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4c

Hydrologic Soil Group: B

Ecological site: Sandy Plains (R067BY024CO)
Hydric soil rating: No

Minor Components

Zigweid

Percent of map unit: 8 percent
Hydric soil rating: No

Vona

Percent of map unit: 7 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part
Survey Area Data: Version 16, Oct 10, 2017

Weld County, Colorado, Southern Part

39—Nunn loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2tln3
Elevation: 3,900 to 6,250 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 135 to 160 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Nunn and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nunn

Setting

Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Pleistocene aged alluvium and/or eolian deposits

Typical profile

Ap - 0 to 6 inches: loam
Bt1 - 6 to 10 inches: clay loam
Bt2 - 10 to 26 inches: clay loam
Btk - 26 to 31 inches: clay loam
Bk1 - 31 to 47 inches: loam
Bk2 - 47 to 80 inches: loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Medium
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: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 7 percent
Salinity, maximum in profile: Nonsaline (0.1 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 0.5
Available water storage in profile: High (about 9.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4c
Hydrologic Soil Group: C
Ecological site: Loamy Plains (R067BY002CO)
Hydric soil rating: No

Minor Components

Haverson, rarely flooded

Percent of map unit: 10 percent
Landform: Drainageways
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Overflow (R067BY036CO)
Hydric soil rating: No

Heldt

Percent of map unit: 5 percent
Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Clayey Plains (R067BY042CO)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part
Survey Area Data: Version 16, Oct 10, 2017