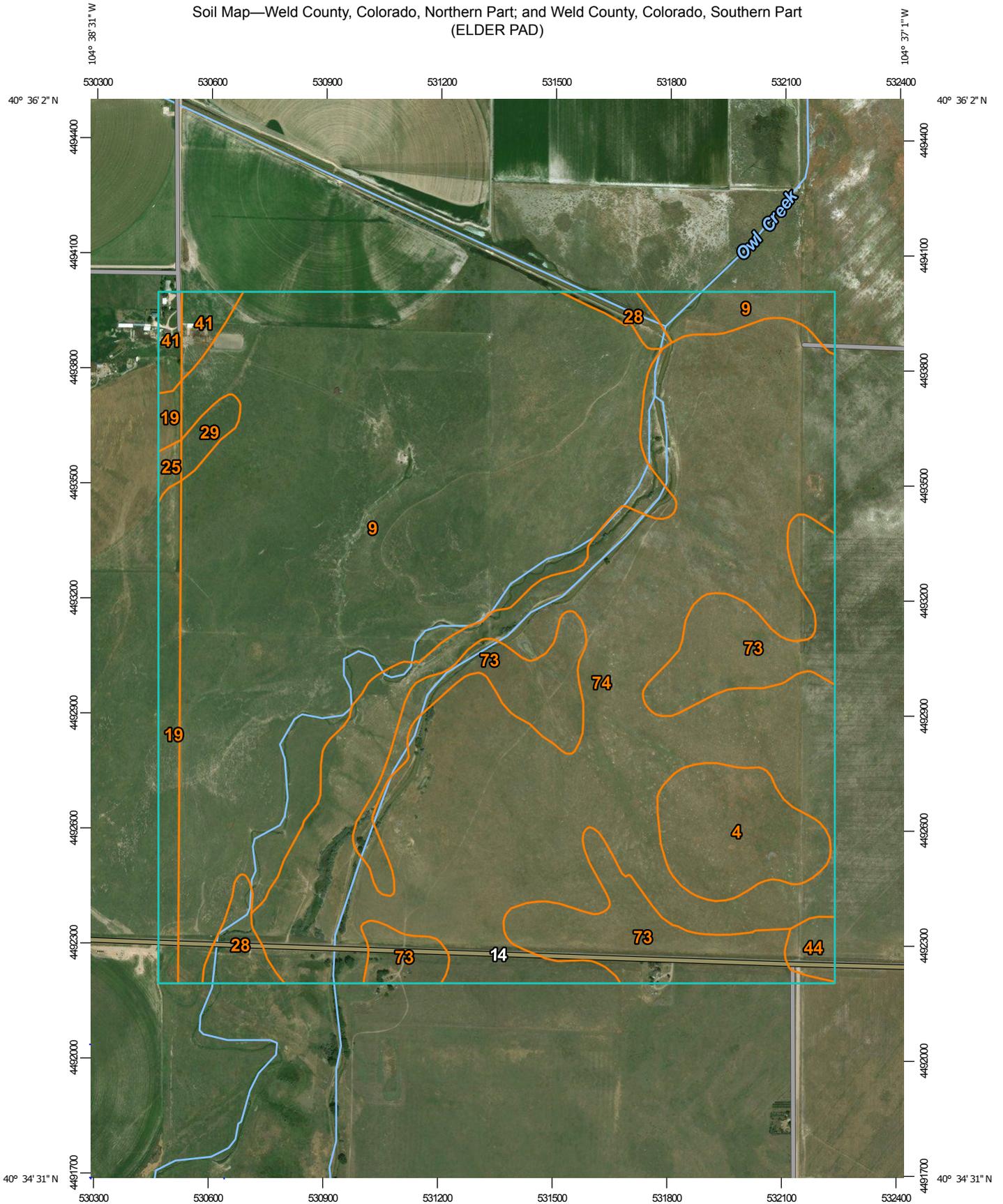
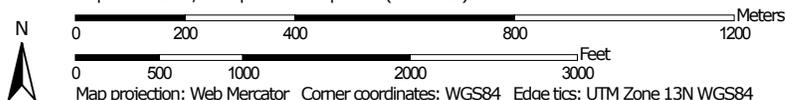


Soil Map—Weld County, Colorado, Northern Part; and Weld County, Colorado, Southern Part  
(ELDER PAD)



Map Scale: 1:13,700 if printed on A portrait (8.5" x 11") sheet.



## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
4	Ascalon fine sandy loam, 0 to 6 percent slopes	29.5	3.7%
9	Avar fine sandy loam	324.8	41.0%
28	Haplaquolls-Fluvaquents complex, frequently flooded	11.5	1.4%
29	Haverson loam, 0 to 3 percent slopes	4.1	0.5%
41	Nunn clay loam, 0 to 6 percent slopes	5.1	0.6%
44	Olney fine sandy loam, 0 to 6 percent slopes	4.5	0.6%
73	Vona sandy loam, 0 to 3 percent slopes	88.4	11.2%
74	Vona sandy loam, 3 to 9 percent slopes	298.4	37.7%
<b>Subtotals for Soil Survey Area</b>		<b>766.4</b>	<b>96.8%</b>
<b>Totals for Area of Interest</b>		<b>791.7</b>	<b>100.0%</b>

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
19	Colombo clay loam, 0 to 1 percent slopes	19.8	2.5%
25	Haverson loam, 0 to 1 percent slopes	1.7	0.2%
41	Nunn clay loam, 0 to 1 percent slopes	3.8	0.5%
<b>Subtotals for Soil Survey Area</b>		<b>25.3</b>	<b>3.2%</b>
<b>Totals for Area of Interest</b>		<b>791.7</b>	<b>100.0%</b>

## Weld County, Colorado, Northern Part

### 9—Avar fine sandy loam

#### Map Unit Setting

*National map unit symbol:* 3615

*Elevation:* 4,500 to 5,500 feet

*Mean annual precipitation:* 11 to 14 inches

*Mean annual air temperature:* 46 to 48 degrees F

*Frost-free period:* 130 to 160 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Avar and similar soils:* 80 percent

*Minor components:* 20 percent

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

#### Description of Avar

##### Setting

*Landform:* Flood plains, swales, stream terraces

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous loamy alluvium

##### Typical profile

*H1 - 0 to 3 inches:* fine sandy loam

*H2 - 3 to 8 inches:* clay loam

*H3 - 8 to 60 inches:* sandy clay loam

##### Properties and qualities

*Slope:* 0 to 3 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 low to moderately high (0.06 to 0.60 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:* Slightly saline to strongly saline (4.0 to 32.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 250.0

*Available water storage in profile:* Moderate (about 6.6 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* C

*Ecological site:* Salt Flat (R067XY033CO)

*Hydric soil rating:* No

### **Minor Components**

#### **Fluvaquentic haplustolls**

*Percent of map unit:* 6 percent

*Landform:* Terraces

*Hydric soil rating:* Yes

#### **Ascalon**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Haverson**

*Percent of map unit:* 4 percent

*Hydric soil rating:* No

#### **Nunn**

*Percent of map unit:* 3 percent

*Hydric soil rating:* No

#### **Bankard**

*Percent of map unit:* 2 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 12, Oct 10, 2017

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

## Weld County, Colorado, Southern Part

### 19—Colombo clay loam, 0 to 1 percent slopes

#### Map Unit Setting

*National map unit symbol:* 361v  
*Elevation:* 4,600 to 4,780 feet  
*Mean annual precipitation:* 12 to 16 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 130 to 160 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

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

#### Description of Colombo

##### Setting

*Landform:* Flood plains, terraces  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Stratified, calcareous alluvium

##### Typical profile

*H1 - 0 to 14 inches:* clay loam  
*H2 - 14 to 21 inches:* stratified loam to clay loam  
*H3 - 21 to 60 inches:* stratified sand to loam to clay 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 (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 10 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* High (about 9.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 1  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C  
*Ecological site:* Clayey Plains (R067BY042CO)  
*Hydric soil rating:* No

### **Minor Components**

#### **Nunn**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Heldt**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Dacono**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

### **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 12, Oct 10, 2017

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 16, Oct 10, 2017