

## Weld County, Colorado, Northern Part

### 44—Olney fine sandy loam, 0 to 6 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35zy

*Elevation:* 3,500 to 5,800 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:* Farmland of statewide importance

#### 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:* Calcareous loamy alluvium

##### Typical profile

*H1 - 0 to 6 inches:* fine sandy loam

*H2 - 6 to 18 inches:* sandy clay loam

*H3 - 18 to 60 inches:* sandy loam

*H4 - 60 to 64 inches:* sandy loam

##### Properties and qualities

*Slope:* 0 to 6 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 8.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4c

*Hydrologic Soil Group:* B

*Ecological site:* Loamy Plains (R067BY002CO)

*Hydric soil rating:* No

**Minor Components**

**Stoneham**

*Percent of map unit:* 9 percent

*Hydric soil rating:* No

**Ascalon**

*Percent of map unit:* 6 percent

*Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 12, Oct 10, 2017

## Weld County, Colorado, Northern Part

### 45—Olney fine sandy loam, 6 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35zz

*Elevation:* 3,500 to 5,800 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:* Not prime farmland

#### 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:* Calcareous loamy alluvium

##### Typical profile

*H1 - 0 to 6 inches:* fine sandy loam

*H2 - 6 to 18 inches:* sandy clay loam

*H3 - 18 to 60 inches:* sandy loam

*H4 - 60 to 64 inches:* sandy loam

##### Properties and qualities

*Slope:* 6 to 9 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 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 8.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* B

*Ecological site:* Loamy Plains (R067BY002CO)

*Hydric soil rating:* No

#### **Minor Components**

##### **Stoneham**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

##### **Vona**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

##### **Ascalon**

*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

## Weld County, Colorado, Northern Part

### 56—Renohill fine sandy loam, 6 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 360c

*Elevation:* 3,600 to 6,200 feet

*Mean annual precipitation:* 11 to 16 inches

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

*Frost-free period:* 100 to 160 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Renohill and similar soils:* 85 percent

*Minor components:* 15 percent

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

#### Description of Renohill

##### Setting

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous, clayey loamy residuum weathered from shale

##### Typical profile

*H1 - 0 to 4 inches:* fine sandy loam

*H2 - 4 to 17 inches:* clay

*H3 - 17 to 29 inches:* clay loam

*H4 - 29 to 33 inches:* unweathered bedrock

##### Properties and qualities

*Slope:* 6 to 9 percent

*Depth to restrictive feature:* 20 to 40 inches to paralithic bedrock

*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:* 15 percent

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

*Available water storage in profile:* Low (about 5.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* D

*Ecological site:* Loamy Plains (R067BY002CO)

*Hydric soil rating:* No

#### **Minor Components**

##### **Platner**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

##### **Midway**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

##### **Other soils**

*Percent of map unit:* 3 percent

*Hydric soil rating:* No

##### **Ulm**

*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