

Weld County, Colorado, Southern Part

52—Otero sandy loam, 3 to 5 percent slopes

Map Unit Setting

Elevation: 4,700 to 5,250 feet
Mean annual precipitation: 12 to 15 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 130 to 180 days

Map Unit Composition

Otero and similar soils: 85 percent
Minor components: 15 percent

Description of Otero

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits and/or mixed outwash

Properties and qualities

Slope: 3 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water
(Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 4.0 mmhos/
cm)
Available water capacity: Moderate (about 7.7 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability classification (irrigated): 3e
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: Sandy Plains (R067BY024CO)

Typical profile

0 to 12 inches: Sandy loam
12 to 60 inches: Fine sandy loam

Minor Components

Kim

Percent of map unit: 12 percent

Vona

Percent of map unit: 3 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 11, Aug 27, 2009

Weld County, Colorado, Southern Part

38—Nelson fine sandy loam, 3 to 9 percent slopes

Map Unit Setting

Elevation: 4,800 to 5,050 feet
Mean annual precipitation: 13 to 15 inches
Mean annual air temperature: 48 to 57 degrees F
Frost-free period: 145 to 190 days

Map Unit Composition

Nelson and similar soils: 85 percent
Minor components: 15 percent

Description of Nelson

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Residuum weathered from sandstone

Properties and qualities

Slope: 3 to 9 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water
(Ksat): Moderately low to high (0.06 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Low (about 3.7 inches)

Interpretive groups

Farmland classification: Farmland of local importance
Land capability classification (irrigated): 4e
Land capability (nonirrigated): 6e
Hydrologic Soil Group: C
Ecological site: Sandy Plains (R067BY024CO)

Typical profile

0 to 9 inches: Fine sandy loam
9 to 30 inches: Fine sandy loam
30 to 34 inches: Weathered bedrock

Minor Components

Thedalund

Percent of map unit: 10 percent

Terry

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 11, Aug 27, 2009