Map Unit Description

Weld County, Colorado, Southern Part

78 Weld loam, 0 to 1 percent slopes

Setting

Elevation: 4850 to 5000 feet
Mean annual precipitation: 13 to 17 inches
Mean annual air temperature: 46 to 55 degrees F
Frost-free period: 100 to 155 days

Composition

Weld and similar soils: 80 percent
Minor components: 20 percent

Description of Weld

Setting
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits

Properties and Qualities
Slope: 0 to 1 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 6 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.2 inches)

Interpretive Groups
Land capability classification (irrigated): 2s
Land capability (non irrigated): 3e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile
0 to 8 inches: loam
8 to 15 inches: clay
15 to 60 inches: silt loam
60 to 64 inches: silt loam

Minor Components

Keith
Percent of map unit: 9 percent

Platner
Percent of map unit: 6 percent

Wiley
Percent of map unit: 5 percent

Map Unit Description

Weld County, Colorado, Southern Part

79 Weld loam, 1 to 3 percent slopes

Setting

Elevation: 4850 to 5000 feet
Mean annual precipitation: 13 to 17 inches
Mean annual air temperature: 46 to 55 degrees F
Frost-free period: 100 to 155 days

Composition

Weld and similar soils: 80 percent
Minor components: 20 percent

Description of Weld

Setting
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits

Properties and Qualities
Slope: 1 to 3 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 6 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.2 inches)

Interpretive Groups
Land capability classification (irrigated): 2e
Land capability (non irrigated): 3e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile
0 to 8 inches: loam
8 to 15 inches: clay
15 to 60 inches: silt loam
60 to 64 inches: silt loam

Minor Components

Keith
Percent of map unit: 7 percent

Wiley
Percent of map unit: 7 percent

Adena
Percent of map unit: 6 percent

Map Unit Description

Weld County, Colorado, Southern Part

53 Otero sandy loam, 5 to 9 percent slopes

Setting

Elevation: 4700 to 5250 feet
Mean annual precipitation: 12 to 15 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 130 to 180 days

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: 5 to 9 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 5.95 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 7.7 inches)

Interpretive Groups
Land capability classification (irrigated): 4e
Land capability (non irrigated): 6e
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: 10 percent

Cushman
Percent of map unit: 5 percent