Map Unit Description

Weld County, Colorado, Northern Part

31 Kim-Mitchell complex, 0 to 6 percent slopes

Timbro Federal LD07-78HN
T9N - R58W - SEC 7
NWNW

Setting

Elevation: 3500 to 6500 feet
Mean annual precipitation: 11 to 17 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 120 to 160 days

Composition

Kim and similar soils: 45 percent
Mitchell and similar soils: 40 percent
Minor components: 15 percent

Description of Kim

Setting

Landform: Alluvial fans, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium

Properties and Qualities

Slope: 0 to 6 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 9.7 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 4e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

0 to 3 inches: loam
3 to 7 inches: clay loam
7 to 60 inches: loam

Description of Mitchell

Setting

Landform: Alluvial fans, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium

Properties and Qualities

Slope: 0 to 6 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: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.8 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 4e
Ecological site: Siltstone Plains (R067BY009CO)

Typical Profile

0 to 7 inches: silt loam
7 to 60 inches: silt loam

Map Unit Description

Weld County, Colorado, Northern Part

47 Otero sandy loam, 3 to 9 percent slopes

Timbro Federal 4D07-78HN

Setting T9N - R58W - SEC 7 NWNW

Elevation: 4500 to 5500 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: Fans, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium and/or colluvium

Properties and Qualities

Slope: 3 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 (non irrigated): 6e
Ecological site: Sandy Plains (R067BY024CO)

Typical Profile

0 to 5 inches: sandy loam
5 to 60 inches: fine sandy loam, sandy loam

Minor Components

Stoneham
Percent of map unit: 7 percent

Bushman
Percent of map unit: 3 percent

Kim
Percent of map unit: 3 percent

Mitchell
Percent of map unit: 2 percent