

Weld County, Colorado, Northern Part

32—Kim-Mitchell complex, 6 to 9 percent slopes

Map Unit Setting

National map unit symbol: 35zj

Elevation: 3,500 to 6,500 feet

Mean annual precipitation: 11 to 17 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 120 to 160 days

Farmland classification: Not prime farmland

Map Unit Composition

Kim and similar soils: 45 percent

Mitchell and similar soils: 35 percent

Minor components: 20 percent

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

Description of Kim

Setting

Landform: Alluvial fans, plains, fans

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium and/or colluvium

Typical profile

H1 - 0 to 3 inches: loam

H2 - 3 to 7 inches: clay loam

H3 - 7 to 60 inches: 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 (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: 15 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Available water storage in profile: High (about 9.7 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C

Ecological site: Loamy Plains (R067BY002CO)

Description of Mitchell

Setting

Landform: Fans, alluvial fans, plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 7 inches: silt loam

H2 - 7 to 60 inches: silt loam

Properties and qualities

Slope: 6 to 9 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 5.95 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

Available water storage in profile: High (about 10.8 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: Siltstone Plains (R067BY009CO)

Minor Components

Keota

Percent of map unit: 7 percent

Thedalund

Percent of map unit: 7 percent

Haverson

Percent of map unit: 6 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014