

Weld County, Colorado, Northern Part

31—Kim-Mitchell complex, 0 to 6 percent slopes

Map Unit Setting

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

Map Unit 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

Typical profile

H1 - 0 to 3 inches: moderately alkaline, loam
H2 - 3 to 7 inches: moderately alkaline, clay loam
H3 - 7 to 60 inches: moderately alkaline, loam

Properties and qualities

Slope: 0 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
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 very slightly saline (0.0 to 4.0 mmhos/cm)
Available water storage in profile: High (about 9.7 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: Loamy Plains (R067BY002CO)

Description of Mitchell

Setting

Landform: Alluvial fans, plains

Douglas LC35-785 Rd
TAN-R59W
Section 26: SWSW

Douglas LC35-785, 780, 775,
770

Jo LC 26-785, 780, 775, 770

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 7 inches: moderately alkaline, silt loam
H2 - 7 to 60 inches: moderately alkaline, silt loam

Properties and qualities

Slope: 0 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural 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 in profile: 15 percent
Available water storage in profile: High (about 10.8 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: Siltstone Plains (R067BY009CO)

Minor Components

Haverson

Percent of map unit: 5 percent

Thedalund

Percent of map unit: 5 percent

Keota

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part
Survey Area Data: Version 9, Dec 23, 2013

Douglas LC35-785 Pad
T9N R59W

Sec 26: SW/4SW/4

Douglas LC35-785, 780,
775, 770

JD LC26-785, 780,
775, 770

Weld County, Colorado, Northern Part

Douglas LC35-785 Rd
T9N-R59W
Section 26: SW SW

36—Manzanola clay loam, 0 to 3 percent slopes

Map Unit Setting

Elevation: 4,400 to 5,600 feet
Mean annual precipitation: 11 to 15 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 140 to 180 days

Douglas LC35-785, 780, 775,
770

SD LC26-785, 780, 775, 770

Map Unit Composition

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

Description of Manzanola

Setting

Landform: Swales, stream terraces, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous clayey alluvium

Typical profile

H1 - 0 to 3 inches: moderately alkaline, clay loam
H2 - 3 to 25 inches: moderately alkaline, clay
H3 - 25 to 48 inches: moderately alkaline, clay
H4 - 48 to 60 inches: strongly alkaline, clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
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: 5 percent
Gypsum, maximum in profile: 3 percent
Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 15.0
Available water storage in profile: High (about 9.6 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: Clayey Plains (R067BY042CO)

Minor Components

Avar

Percent of map unit: 15 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 9, Dec 23, 2013

Douglas LC35-78S Pad
T9N R59W

Sec: 26 SW/4 SW/4

Douglas LC35-78S, 780, 775, 770

JD LC24-78S, 780, 775, 770

Weld County, Colorado, Northern Part

Douglas LC35-785 Pub
T9N-R59W

Section 26 : SWSW

40—Nunn loam, 0 to 6 percent slopes

Douglas LC35-785, 780, 775, 770

JD LC26-785, 780, 775, 770

Map Unit Setting

Elevation: 4,500 to 6,700 feet

Mean annual precipitation: 12 to 18 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 115 to 180 days

Map Unit Composition

Nunn and similar soils: 85 percent

Minor components: 15 percent

Description of Nunn

Setting

Landform: Stream terraces, plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 7 inches: neutral, loam

H2 - 7 to 23 inches: neutral, clay loam

H3 - 23 to 60 inches: strongly alkaline, clay loam

H4 - 60 to 64 inches: moderately alkaline, sandy clay loam

Properties and qualities

Slope: 0 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

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 (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Moderate (about 9.0 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4c

Hydrologic Soil Group: C

Ecological site: Loamy Plains (R067BY002CO)

Minor Components

Manzanola

Percent of map unit: 8 percent

Avar

Percent of map unit: 7 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 9, Dec 23, 2013

Douglas LC35-785 Pad
T9N R59W

Sec 26: SW/4 SW/4

Douglas LC35-785, 780, 775, 770
JD LC26-785, 780, 775, 770