

Weld County, Colorado, Northern Part

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

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)

Faith LC34-785 Fnd
T9N - R59W
Section 34: NW NW

Faith LC 34-785, 780, 775, 770
Jessica LC 27-785, 780, 775, 770
Christine LC 27-765, 760, 755, 750
Ann LC 34-765, 760, 755, 750

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

Weld County, Colorado, Northern Part

60—Shingle clay loam, 0 to 9 percent slopes

Map Unit Setting

Elevation: 3,600 to 5,500 feet
Mean annual precipitation: 10 to 13 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

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

Description of Shingle

Setting

Landform: Ridges, breaks, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous, clayey loamy residuum weathered from shale

Typical profile

H1 - 0 to 4 inches: moderately alkaline, clay loam
H2 - 4 to 11 inches: moderately alkaline, clay loam
H3 - 11 to 15 inches: , unweathered bedrock

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
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: Very low (about 2.1 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: Shaly Plains (R067BY045CO)

Minor Components

Renohill

Percent of map unit: 10 percent

Faith LC 34-785 Fad

T9N-R59W

Section 34 : NW NW

Faith LC 34-785, 780, 775, 770

Jessica LC 27-785, 780, 775, 770

Christine LC 27-765, 760, 755, 750

Ann LC 34-765, 760, 755, 750

Keota

Percent of map unit: 5 percent

Thedalund

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

Weld County, Colorado, Northern Part

Faith LC34-785 Pa 1
T9N - R59W
Section 34: NWNW

33—Kim-Shingle complex, 6 to 30 percent slopes

Map Unit Setting

Elevation: 3,500 to 6,500 feet
Mean annual precipitation: 10 to 17 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 110 to 150 days

Faith LC34-785, 780, 775, 770
Jessica LC27-785, 780, 775, 770
Christine LC27-765, 760, 755, 750

Map Unit Composition

Kim and similar soils: 60 percent
Shingle and similar soils: 20 percent
Minor components: 20 percent

Ann LC34-765, 760, 755, 750

Description of Kim

Setting

Landform: Alluvial fans, breaks, 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: moderately alkaline, loam
H2 - 3 to 7 inches: moderately alkaline, clay loam
H3 - 7 to 60 inches: moderately alkaline, loam

Properties and qualities

Slope: 6 to 20 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: Not prime farmland
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: Loamy Plains (R067BY002CO)

Description of Shingle

Setting

Landform: Alluvial fans, breaks, fans, plains

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy residuum weathered from shale

Typical profile

H1 - 0 to 4 inches: moderately alkaline, clay loam
H2 - 4 to 11 inches: moderately alkaline, clay loam
H3 - 11 to 15 inches: , unweathered bedrock

Properties and qualities

Slope: 6 to 30 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
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: Very low (about 2.1 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: Shaly Plains (R067BY045CO)

Minor Components

Keota

Percent of map unit: 10 percent

Cascajo

Percent of map unit: 10 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 9, Dec 23, 2013