

Weld County, Colorado, Northern Part

66—Thedalund-Keota loams, 0 to 3 percent slopes

Map Unit Setting

Elevation: 3,500 to 6,500 feet

Mean annual precipitation: 13 to 17 inches

Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 160 days

Map Unit Composition

Thedalund and similar soils: 45 percent

Keota and similar soils: 30 percent

Minor components: 25 percent

Description of Thedalund

Setting

Landform: Alluvial fans, ridges, plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy residuum weathered from sandstone and shale and/or residuum weathered from siltstone

Typical profile

H1 - 0 to 3 inches: moderately alkaline, loam

H2 - 3 to 25 inches: moderately alkaline, loam

H3 - 25 to 29 inches: , weathered bedrock

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately low to high (0.06 to 2.00 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 8.0 mmhos/cm)

Available water storage in profile: Low (about 4.3 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 4s

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: Loamy Plains (R067BY002CO)

Description of Keota

Setting

Landform: Ridges, alluvial fans, plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy residuum weathered from
siltstone

Typical profile

H1 - 0 to 4 inches: moderately alkaline, loam

H2 - 4 to 35 inches: moderately alkaline, silt loam

H3 - 35 to 39 inches: , unweathered bedrock

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 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: 10 percent

Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Low (about 5.3 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 4s

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: Siltstone Plains (R067BY009CO)

Minor Components

Epping

Percent of map unit: 10 percent

Kim

Percent of map unit: 5 percent

Shingle

Percent of map unit: 5 percent

Mitchell

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