

Weld County, Colorado, Northern Part

67—Thedalund-Keota loams, 3 to 9 percent slopes

Map Unit Setting

National map unit symbol: 360r

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

Farmland classification: Not prime farmland

Map Unit Composition

Thedalund and similar soils: 45 percent

Keota and similar soils: 30 percent

Minor components: 25 percent

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

Description of Thedalund

Setting

Landform: Alluvial fans, ridges, plains

Down-slope shape: Linear

Across-slope shape: Linear

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

Typical profile

H1 - 0 to 3 inches: loam

H2 - 3 to 24 inches: loam

H3 - 24 to 28 inches: weathered bedrock

Properties and qualities

Slope: 3 to 9 percent

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

Natural drainage class: Well drained

Runoff class: Medium

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 moderately saline (0.0 to 8.0 mmhos/cm)

Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C
Ecological site: Loamy Plains (R067BY002CO)
Hydric soil rating: No

Description of Keota

Setting

Landform: Plains, alluvial fans, ridges
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy residuum weathered from
siltstone

Typical profile

H1 - 0 to 4 inches: loam
H2 - 4 to 35 inches: silt loam
H3 - 35 to 39 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 9 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: Medium
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 to very slightly saline (0.0
to 2.0 mmhos/cm)
Available water storage in profile: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: C
Ecological site: Siltstone Plains (R067BY009CO)
Hydric soil rating: No

Minor Components

Epping

Percent of map unit: 10 percent
Hydric soil rating: No

Shingle

Percent of map unit: 5 percent
Hydric soil rating: No

Mitchell

Percent of map unit: 5 percent
Hydric soil rating: No

Kim

Percent of map unit: 5 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 12, Oct 10, 2017