

Weld County, Colorado, Northern Part

6—Ascalon-Blakeland complex, 3 to 15 percent slopes

Map Unit Setting

Elevation: 4,500 to 6,500 feet

Mean annual precipitation: 13 to 17 inches

Mean annual air temperature: 46 to 57 degrees F

Frost-free period: 130 to 160 days

Map Unit Composition

Ascalon and similar soils: 50 percent

Blakeland and similar soils: 30 percent

Minor components: 20 percent

Description of Ascalon

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 8 inches: neutral, fine sandy loam

H2 - 8 to 26 inches: neutral, sandy clay loam

H3 - 26 to 60 inches: strongly alkaline, sandy loam

Properties and qualities

Slope: 3 to 15 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 (0.60 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: 10 percent

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

Available water storage in profile: Moderate (about 7.0 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B

Ecological site: Loamy Plains (R067BY002CO)

Description of Blakeland

Setting

Landform: Alluvial fans, fans

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Arkosic sandy alluvium and/or arkosic sandy
colluvium

Typical profile

H1 - 0 to 15 inches: neutral, loamy sand

H2 - 15 to 60 inches: neutral, loamy sand

Properties and qualities

Slope: 3 to 15 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to
very high (5.95 to 19.98 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

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

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: Deep Sand (R067BY015CO)

Minor Components

Wages

Percent of map unit: 10 percent

Bushman

Percent of map unit: 5 percent

Bresser

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