

Map Unit Description

Cheyenne County, Colorado

5 Ascalon-Eckley complex, 5 to 20 percent slopes

Setting

Elevation: 4200 to 6500 feet
Mean annual precipitation: 13 to 19 inches
Mean annual air temperature: 46 to 57 degrees F
Frost-free period: 120 to 160 days

Composition

Ascalon and similar soils: 50 percent
Eckley and similar soils: 35 percent
Minor components: 15 percent

Description of Ascalon

Setting

Landform: Hills
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Properties and Qualities

Slope: 5 to 20 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 8.3 inches)

Interpretive Groups

Land capability classification (irrigated): 6e
Land capability (non irrigated): 6e
Ecological site: Sandy Plains (R067BY024CO)

Typical Profile

0 to 6 inches: sandy loam
6 to 19 inches: sandy clay loam
19 to 35 inches: sandy clay loam
35 to 60 inches: sandy loam

Description of Eckley

Setting

Landform: Hills
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Properties and Qualities

Slope: 5 to 20 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.6 inches)

Interpretive Groups

Land capability (non irrigated): 6e
Ecological site: Gravel Breaks (R067BY063CO)

Typical Profile

0 to 4 inches: sandy loam
4 to 16 inches: gravelly sandy clay loam, sandy clay loam, clay loam

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16 to 60 inches: gravelly sand, gravelly loamy sand, very gravelly sand

Minor Components

Manter

Percent of map unit: 15 percent