

Arapahoe County, Colorado

NrB—Nunn-Bresser-Ascalon complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 34yw

Elevation: 4,500 to 6,800 feet

Mean annual precipitation: 12 to 18 inches

Mean annual air temperature: 46 to 57 degrees F

Frost-free period: 115 to 180 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Nunn and similar soils: 40 percent

Bresser and similar soils: 25 percent

Ascalon and similar soils: 20 percent

Minor components: 15 percent

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

Description of Nunn

Setting

Landform: Playas, streams, stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 28 inches: clay loam, clay

H2 - 8 to 28 inches: sandy clay loam, fine sandy loam, sandy loam

H3 - 28 to 60 inches:

H3 - 28 to 60 inches:

H3 - 28 to 60 inches:

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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 to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Very high (about 20.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3c

Hydrologic Soil Group: C

Ecological site: Loamy Foothill (R049BY202CO)

Hydric soil rating: No

Description of Bresser

Setting

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Noncalcareous sandy alluvium and/or noncalcareous sandy eolian deposits

Typical profile

H1 - 0 to 6 inches: sandy loam

H2 - 6 to 26 inches: sandy clay loam, clay loam

H2 - 6 to 26 inches: loamy coarse sand, gravelly loamy sand

H3 - 26 to 60 inches:

H3 - 26 to 60 inches:

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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

Moderately high to high (0.57 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

Available water storage in profile: Very high (about 12.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 4c

Hydrologic Soil Group: B

Ecological site: Loamy Foothill (R049BY202CO)

Hydric soil rating: No

Description of Ascalon

Setting

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Reworked by wind outwash

Typical profile

H1 - 0 to 6 inches: sandy loam

H2 - 6 to 17 inches: sandy clay loam, sandy loam

H2 - 6 to 17 inches: fine sandy loam, loamy fine sand, sandy loam

H3 - 17 to 60 inches:

H3 - 17 to 60 inches:

H3 - 17 to 60 inches:

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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 to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Very high (about 16.8 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Loamy Foothill (R049BY202CO)

Hydric soil rating: No

Minor Components

Olney

Percent of map unit: 10 percent

Hydric soil rating: No

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Percent of map unit: 5 percent

Landform: Swales

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Arapahoe County, Colorado

Survey Area Data: Version 15, Sep 12, 2019