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, stream terraces, streams
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

Aquic ustochrepts

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 12, Sep 22, 2016