

Lincoln County, Colorado

200—Vona-Karval-Midway, moist, complex, 5 to 25 percent slopes

Map Unit Setting

Elevation: 4,400 to 6,000 feet
Mean annual precipitation: 11 to 16 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 155 days

Map Unit Composition

Vona and similar soils: 35 percent
Karval and similar soils: 30 percent
Midway and similar soils: 20 percent
Minor components: 15 percent

Description of Vona

Setting

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water capacity: Moderate (about 6.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: Sandy Plains (R067BY024CO)

Typical profile

0 to 7 inches: Sandy loam
7 to 16 inches: Sandy loam
16 to 25 inches: Sandy loam
25 to 60 inches: Loamy sand

Description of Karval

Setting

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Properties and qualities

Slope: 10 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 19.99 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 2.6 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: Gravel Breaks (R067BY063CO)

Typical profile

0 to 5 inches: Gravelly loamy sand
5 to 40 inches: Gravelly coarse sand
40 to 60 inches: Sand

Description of Midway

Setting

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Slope alluvium derived from shale over residuum weathered from shale

Properties and qualities

Slope: 10 to 25 percent
Depth to restrictive feature: 6 to 20 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 15 percent
Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 15.0
Available water capacity: Very low (about 2.4 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: D
Ecological site: Shaly Plains (R067BY045CO)

Typical profile

0 to 4 inches: Clay loam
4 to 15 inches: Clay loam
15 to 25 inches: Weathered bedrock

Minor Components

Razor

Percent of map unit: 4 percent
Landform: Hills
Landform position (three-dimensional): Side slope
Other vegetative classification: CLAYEY PLAINS (067XY042CO_1)

Arvada

Percent of map unit: 4 percent
Landform: Fans, drainageways
Other vegetative classification: Salt Flat (069AY033CO_1)

Valent

Percent of map unit: 3 percent
Landform: Dunes
Ecological site: Deep Sand (R067BY015CO)
Other vegetative classification: DEEP SANDS (067XY015CO_2)

Rock outcrop

Percent of map unit: 3 percent
Landform: Scarps

Gravel pits

Percent of map unit: 1 percent

Data Source Information

Soil Survey Area: Lincoln County, Colorado
Survey Area Data: Version 11, Dec 23, 2013