

Map Unit Description

Lincoln County, Colorado

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

Setting

Elevation: 4400 to 6000 feet
Mean annual precipitation: 11 to 16 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 155 days

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
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits

Properties and Qualities

Slope: 5 to 10 percent
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 6.5 inches)

Interpretive Groups

Land capability (non irrigated): 6e
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
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Properties and Qualities

Slope: 10 to 25 percent
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High or very high (6.00 to 19.99 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups

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

Typical Profile

0 to 5 inches: gravelly loamy sand
5 to 40 inches: gravelly coarse sand

Map Unit Description

Lincoln County, Colorado

40 to 60 inches: sand

Description of Midway

Setting

Landform: Hills
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)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 15 percent
Salinity maximum: Non saline or 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

Land capability (non irrigated): 6e
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 soils

Percent of map unit: 4 percent
Landform: Hills
Other vegetative classification: CLAYEY PLAINS (067XY042CO_1)

Arvada soils

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

Valent soils

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

Map Unit Description

Lincoln County, Colorado

213 Weld silt loam, 0 to 2 percent slopes

Setting

Elevation: 4400 to 6000 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 155 days

Composition

Weld and similar soils: 85 percent
Minor components: 15 percent

Description of Weld

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loess

Properties and Qualities

Slope: 0 to 2 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 11.0 inches)

Interpretive Groups

Land capability (non irrigated): 3c
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

0 to 4 inches: silt loam
4 to 19 inches: silty clay
19 to 44 inches: silty clay loam
44 to 60 inches: silt loam

Minor Components

Pleasant soils

Percent of map unit: 5 percent
Landform: Depressions
Ecological site: Plains Swale (R067XY010CO)

Colby soils

Percent of map unit: 5 percent
Landform: Plains
Other vegetative classification: Loamy Plains (067XY002)

Karval soils

Percent of map unit: 3 percent
Landform: Hills
Other vegetative classification: GRAVEL BREAKS (067XY063CO_1)

Rago soils

Percent of map unit: 2 percent
Landform: Flood plains
Ecological site: Overflow Central/South - Draft (R067XY036CO)