

Report — Map Unit Description



Morgan County, Colorado

CnD—Colby-Adena loams, 5 to 9 percent slopes

Map Unit Setting

National map unit symbol: 3pwt

Elevation: 4,000 to 5,500 feet

Mean annual precipitation: 12 to 16 inches

Mean annual air temperature: 48 to 55 degrees F

Frost-free period: 120 to 160 days

Farmland classification: Not prime farmland

Map Unit Composition

Colby and similar soils: 65 percent

Adena and similar soils: 20 percent

Minor components: 15 percent

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

Description of Colby

Setting

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy loess and/or nearly uniform silty loess and/or sandy loess

Typical profile

H1 - 0 to 5 inches: loam

H2 - 5 to 28 inches: silt loam

H3 - 28 to 60 inches: very fine sandy loam

Properties and qualities

Slope: 5 to 9 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

*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: 15 percent

Available water storage in profile: High (about 10.0 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: Loamy Slopes (R067BY008CO)
Hydric soil rating: No

Description of Adena**Setting**

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Calcareous loamy eolian deposits

Typical profile

H1 - 0 to 3 inches: loam
H2 - 3 to 10 inches: clay loam
H3 - 10 to 60 inches: very fine sandy loam

Properties and qualities

Slope: 5 to 9 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat):
Moderately high (0.20 to 0.60 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
Available water storage in profile: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: C
Ecological site: Loamy Slopes (R067BY008CO)
Hydric soil rating: No

Minor Components**Ulysses**

Percent of map unit: 9 percent
Hydric soil rating: No

Stoneham