

Adams County Area, Parts of Adams and Denver Counties, Colorado

ShF—Samsil-Shingle complex, 3 to 35 percent slopes

Map Unit Setting

National map unit symbol: 34wk
Elevation: 3,500 to 5,600 feet
Mean annual precipitation: 12 to 14 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 125 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Samsil and similar soils: 40 percent
Shingle and similar soils: 35 percent
Minor components: 25 percent
*Estimates are based on observations, descriptions, and transects of
the mapunit.*

Description of Samsil

Setting

Landform: Hills
Landform position (three-dimensional): Base slope, side slope,
nose slope, head slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Residuum weathered from shale

Typical profile

H1 - 0 to 4 inches: clay
H2 - 4 to 14 inches: silty clay
H3 - 14 to 18 inches: weathered bedrock

Properties and qualities

Slope: 3 to 35 percent
Depth to restrictive feature: 4 to 20 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very
low to moderately low (0.00 to 0.06 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
Gypsum, maximum in profile: 2 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0
to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Shaly Plains (R067BY045CO)

Hydric soil rating: No

Description of Shingle

Setting

Landform: Hills

Landform position (three-dimensional): Head slope, nose slope,
side slope, base slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Residuum weathered from shale

Typical profile

H1 - 0 to 3 inches: loam

H2 - 3 to 12 inches: loam

H3 - 12 to 16 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 35 percent

Depth to restrictive feature: 10 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Medium

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 low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): 6s

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: Shaly Plains (R067BY045CO)

Hydric soil rating: No

Minor Components

Renohill

Percent of map unit: 10 percent

Hydric soil rating: No

Ulm

Percent of map unit: 10 percent

Hydric soil rating: No

Loamy alluvial land

Percent of map unit: 3 percent

Hydric soil rating: No

Satanta

Percent of map unit: 2 percent

Landform: Paleoterraces

Hydric soil rating: No

Data Source Information

Soil Survey Area: Adams County Area, Parts of Adams and Denver Counties,
Colorado

Survey Area Data: Version 14, Oct 5, 2017