

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

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

Map Unit Setting

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

Map Unit Composition

Samsil and similar soils: 40 percent

Shingle and similar soils: 35 percent

Minor components: 25 percent

Description of Samsil

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 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

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 (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

Farmland classification: Not prime farmland

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Shaly Plains (R067BY045CO)

Description of Shingle

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 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

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 (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Very low (about 1.8 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 6s

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: Shaly Plains (R067BY045CO)

Minor Components

Renohill

Percent of map unit: 10 percent

Ulm

Percent of map unit: 10 percent

Loamy alluvial land

Percent of map unit: 3 percent

Satanta

Percent of map unit: 2 percent

Landform: Paleoterraces

Data Source Information

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

Survey Area Data: Version 10, Dec 24, 2013

ShF—Samsil-Shingle complex, 3 to 35 percent slopes						
Samsil	Shaly Plains	1,200	700	400	Western wheatgrass	20
					Sideoats grama	10
					Green needlegrass	10
					Indian ricegrass	5
					Winterfat	5
					Fourwing saltbush	5
					Blue grama	—
					Alkali sacaton	—
Shingle	Shaly Plains	900	700	50	Western wheatgrass	15
					Needleandthread	10
					Sideoats grama	10
					Fourwing saltbush	5
					Winterfat	5
					Blue grama	—
					Alkali sacaton	—